SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG __ E

DATE 12 May 65 Pg. # 1

1300 begin obo. 1	# dir. hg	t. remarks	loc,
1335 Red foot Books 1340 Wedgetand	1 8	2 udyaar bind	
1345 Noday			
1350 Norld	1 W		
1355 Nordy	1/		
	1/1		
1356 Bulwer's 1357 Soots Tem tem sp	25+		
temsp	125+		
RFB	5+	fegding adult	
1400 Souty Tem		adult	
Norday			
1405 Soots Term	4 8		
1400 Soots Tem Norday 1405 Soots Term 1410 Norday			
1412 SootsTem	25+		
Noday	75 ±10	leading - met	
Wedgetail	30 ±10	feeding - most sitting in water wellding Noddies	
RF8	8	1 dars	
1417 Wedgetany	3	1 subadult, 1 immature 6 adult	
1420 Bulwer's P 1422 Wedgeton			
1422 Desgetais	1		
1423 Soot Tem	1-1	Alushed	
1424 Wedgetail	,		
1426 Soot Ten			
1429 Svats Tem	1.1		
1430 Noday	11		
1435 Wedgetail	/		
1440 Bulwers P	1		
1441 Bulwers P.			
1445 By 1 Mas	2		
11/50			
1953 Soots Tem 1454 RER	\$ 5		
1455 Sooty Jen	1	adult	
Wodgeland	2		
1456 Wedgetail	2		
anger and	/		
1959 Noddy	1		
1505 RFR	2	adult,	
Wedgetan	3+10	feeding	
1506 Wedgeten			356
(507 Wedgetans			336

_~	SE
2	15
	\times
X	W
70	NW

	•	JW.		hat		100
time	species	¥	dir.	ngt.	remarks	loc,
15/1	Archi Ten Wedgetail	2				
1514	Noday	1				
	Wedgetail	12				
	Noda	807			travelling	
	Wedgetan	2.				
15/7	Soots Shear	2	Sandard of Co.			
1517	Bulwer's P					
1519	Sorty Term	1				
1520	Bulwers	1				
1530	Fryste	1				
	RFB	1			adult	
	Wedgetail	1			alul	
1540	RFR					
1541	Wedgetail	1			adult	
	RFR	2				
1603		/			adult	
1608	Sooty Jan Nodaly	金	10 10			
	Wedy Tail)	10		feeding	
	KPB	-			adult	
1610	Noddy	10				
	RFB	(scattered about	
11	Wedgetail	1			Some setting	
1612	RFB	1			sitting admit	
1614	Sort, Shews	1	W			
1616	RFB	1			adult	
1619	shear/petiel	1			Rembable 55	
1622	Bulwers	,			probably 5.5.	
1624	SootyTen	10				
	Nod dy	,			kednin	
	RFB	153			Ladelt (immaline	
	Wedgetanit	15				
1632	Sorty Shear	1	المريدة			
1632	Wedgetuil	1				
1032	,) / ~ ~	10+			feeding	
	RFB	3			adult	
1636	RFB	A STATE OF THE PARTY OF THE PAR	10		adult.	, 86
1	Tennap		0		feeding	356
1637	Wedgetal 5 orts Tem	2+				:312

DATE 12 May 65 Pg. 3

ime	species	#	dir. het.	remarks	loc
1655	Soots Ten Norddy Wednetail Red-foot B.	47752	N	pravelling, strong out	
1702	tern sp Bed-footed B	75			
1703	BFA Bulwers Wedgetand	1 1 2	faller	feeding dedn't follow	
1706 1723 1740	Bulwers Soots Shear Wedgetud	1	Name of State of Stat	1747 1 DFA	
1/42	Sooty Steam Sooty Steam Wedgetuil	1			
1758		1		Dane	
1800 1735 1735 1867	Tem	123		Jesemby Asari	
1810	Bulwero Noddy Wedgetail	121			
1831	Wedgetail	52	Λ /	travelling	
1037	Soots Tern Wedgetuil Bulwers	1426		travelling - strong out	
1839	Wedgetund	1122			
1843 1845 1850 1854	Wedgeturl				

17/01/2001/33/8/859

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

Pg. # 13 May 65

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oss2	begin obse species	rations dir.	het remarks		loc,
0610	Soots Shear	2 4			
0613	Bulwers				
0618	SootyShew				
0619	Newell's.	1/0			
3620	Soot Tem	1 3 6			
0625	Wedgetail	3 ~			
0626	SootyShear	1 00			
0630		ITNW			
0639		1 5W			
0639	1 - m	3 N			
0640		IN			
0640	1 Nower of	, ,			
0641	Wedgetuil	INN			
0645		1 SW			
0647		1 5			
0649	Je soon	1 5			
0658	Newell's S. Sovis Shear	1 5			
0707	Soots Shews	3/1/2			
0715	lead & P	1 NW			
0718	Wedgetail				
0719	Sarty Shan	1			
0745	South Shan	2 /			
0750	Bulwer's P	2 /			
080		1 N			
08/5	Shear/patrol	4	seen by watch		
0816	10	3 NW			
	SootsTem	2			
0820	so o you near	2 2			
0823	Wedgetail Newell's S	2			
	Newell's S				
25. /	Beliver's	1		100	
0824	SootyTem	5+		ev ·	
457	Frigate	2	feeding	D ₁	
0830	Wedgetoil	1			
6072	Bulmer's P.	1			
0832	Sooty Shear	100			
2834	Leach's P				
0841	Sooty Shear	2 NW			
0850		1100			
0858	Sort Shear	VIII			
0859	Newell's	1000	not really a flore		
0902	Souty Shear	1 NE 6 NW			
0905	Sont Too	40±10	(1		123
	Wadnoton South South Shear	4	feeding		

DATE 13 May 65
Pg. # 2

		N.				100
time	species	-	dir.	hgt.	remarks	loc.
0917	Cores Pelal?	1	SE		distant- small- white underport	
0921	shew / petal					
0924	shear/petiel	1				
0925	Bulmen's	/				
		1				
8937	Pom, Jaeges	/	NW			
0993	Sooty Shear	1	Mandan			
0945	3.5	150	+		feeding probably shear/petrel to-	
	Sorty Shear	1	4		present y. present y.	
0951	shear/petrel	1				
0955		1	Lord			
0956	Level's P.	1				
1006	Sootshear	1	J.			
1013	Dind Shews	7				
1014	Soots Shews	36	- Server		noflors	
1015	Balwers	1				
1021	wedgetand	11	1			
1022		11	1-			
1034		11				
1042	~ /	1	-			
1049		1	~			
1054	Joogslean	1	1			
1055	Frigate	3				
	Souts Tem	13	-		feeding	
1100	SootsTem	3				
1105	Sooty Shear	3	62			
1106	SootyShows	1				
1118	Sorty Shen	2				
1121	Buliver's P	1				
1/29		1			-22 7	
1138	Newell's 5 Souts Shear	1	,-			
1145	Souty Shear	3	1			
1205	Sooty Shear	1	1.			
1210	Sooty Shear	5			1 - 10 8	
1211	SootsTen	1			noflore	
1214	Sooty Shear		1			
1215	Frigate	2	1		a label to all	
	SootyTerm	5+	-		troused , mend	
1216	Sooty Shear	10	-1			
11217	Leach's P.	1				
1218		1	-			
1/219	1	13				
1225		11				
	Bulwers	1				
1229						
1230	Wegetan	2				2

SMITHSONIAN INSTITUTION

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ecies # dir he	remarks	

time	species	#	dir.	hgt.	remarks	loc,
1233	Bulwers P					
1233	Lead to P	2				
	Frigate	,				
	South Tem	/				
	Bulwerso	lí				
1313	5 orty shen	1	1			
			9		white on the extended well around into undertail coverts	
1333	Wedgetanl		;		Harcourts? - flight perhaps less petrellile, more flopp	,
			3			
1415	Sooty Tem	2				
'	Sools Tom	8	,			
1440		2	N			
1445	SoutsTem	1	NW			
11	FairyTerm	1	1			1-7+2
	Soots Shear	2	N			6-7
1612	Frigate	1				
1706	Sooty Sheas		NW			
1710	Bulwers	1	W			
1732	Souty Shear	,	N			
173 3	Leach's P.	1	NW			
1734	Sorty Shear	12				
1745		1	NE			
1746	Leach's P	11				
1747	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1			
1751	Bulwer's P.	1	1			
1753		1				
1757	Wedgelail	1				
1806	Sootyshear	1	1			
1824	Dedgetul	/			Soll of the	
1825	shear/petres	1			probably south Shear	
1833	Leach's P. Sooty Shea	1	10			
1802	Joolyshea	1 2				
1900	and obse					
	Obe	no	ations	7		
	1					
				1		
	1					123
						138
						387

DATE 14 May65
Pg. #

	time	species	V #	dir.	hgt. remarks	loc,
	0600		va	time		
	0621		3	2		
	0 0 7 2		5		scattering	
	0630	+ regate	1	1		
		Sooty Shear shear/petel	1	1		
	0755	Sooty Tem			seen by watch	
	0800	Sorty Tem	/	N		
	0808.	shew/petrel	1	10	light below, dark above, small, distant	
	0822	Wedgetail?	1		sean by Howard	
Bup:	0823		11		9	
Desto	0830	Scots shear?	2		seen by Howard	
	0839	Shear/petres	1			
		Sooty Tera		NE	dard above, light below, distant	
}'	0922	1 21 0	1	100		
	1048	- Con & better	3	NW		
	1058	coves petro	4	NW		
11	1100	Cooks Petrel	(
	,	jæger sp!	2			
	1120	WITB	1		small type - white headed look - man account for sightings of Shear/petrel x seen last young.	
	1215	SootyTem	2	5	To sightings of was/penel & seen last spring.	
	1239	Sootyshen	1	1	I had white edged, long outer retrices	
	1240	Cendiop.	1			
	1300	shew/ setre	1			
	1304	WITTS			1300 15 25 1 10 1	
	1337		1	1-12	1300 15-20 smallish porpoises	
	1411	Scoty Thear	1	N		
	1428	Sorty Shews	1	NW		
	1450	RTTB		, λ ω		
	1618	Bulwers	/	N	Rushed	
	1648	CoosisPetrel.	2	NW		
	1715	WNP		1000	A A	
	1755	shear/petrel	1		20t on water	
1 4		Cooks Petel	1	5 W	probably cooks P	
	1157	Ilean / Petrel	S. D. C.			
* 1	1825	Cooso Petel	1	SW	Dan by Suyale	
	1829	Bulwers. Shoar/petrol	1,	N	white undersant - son I Pot	
	1855	end obse		tron	white underparts - seen by Peta	

DATE 15 May 65
Pg. # 1

				W			
	time	species	I W	dir.	het.	remarks	loc
	0600	begin obse	rv	ation	0		
	0600	shew/sotiel					
	9632	Bulwer's	1			seenby george	
	0705	tem 2p	1	Apro		man se arctii Tem	
	0717	Souty Shear Souty Shear	1	and the second			
(12)		Cookol,?	1				
٠	0719	show/petrel	1			white underparts - distant	
	6725	Cools P?	1			listant	
In Jan	0740	IFP 3	1	54		George	
		shear/jetral	3	W			
1	0754	shear / setrel cools P.	}				
	0812	Sorty Shear	2	W			
	0850	Bulwer's					
866	0906	costsp?	1	NW		Sugar	
	0930	Corles P	1	NW		Singuel	
1	0439	Wedgetail coss Petel	1	IVW		dark	
Ty	0946		2	NW			
	0947	1	1	1000		one seemed intermediate in size between Cooks + JFP	
	10.05	Sorty Shear	/	X		dar wderwing sages	
	1010	Cooks P.	/	1		Suyerki	
17	1015	Cooso P	1	Nu			
	1017	Cooks P	2	NW			
	1035	Corro P	1	W			
	1049	cooks P	1	NW			
	1052	Cools P	2	NW			
	1055	Sooty Shear	1	N			
	1107	Pom Jaenes	/	Ntw			
	1111	Corrolettel	1	1/6			
	1133	Cooks M.	4	, , ,		Sugari	
	1134	Bulwar's	1				
11 ~	1150	Cools P.	1				
	1204	wedgetail	1			Land	
	1205	cooks P.	1				
	1217	Teach of	3	W N			
	1237		(~ ~ ~			
	1326	BulwersP	7				
1	1230	tropirbuid i, to	1			seanost stem	

55

tim	e species	NW	dir. het.	remarks	loc.
145					
11 154		i	NW		
1618	Cools P	2	W		
163	36 Cools P.	/	W		
164	15 steas/petie	1			
18 64		1			
165	O Conshipetro	2. 1	W		
1650	8 Cooks P. 8 Shear peter	1			
1709	Couldon.	1	6		
170	8 Cooks P.	1			
17/	9 Cools P	/	W		
173	8 shear speties				
174	o Cooks P	1	NW		
1/14	5 (000)		NW		
175	50 Sootshear				
181	0-	, /	W		
1813		/	ω		
1182	10 end obs	en	utions		
		2			

OSSD Degin observations 0688 Sort Shear I NW 6632 Sort Shear I NW 0797 Sort P 2 W 0795 Sort Shear I NW 0790 Shear pot 2 W 0890 Shear pot 2 W 0890 Shear pot 2 W 0890 Shear pot 2 W 0892 Sort Shear I NW 0892 Sort Shear I NW 0893 Sort Shear I NW 0893 Sort Shear I NW 0935 Sort Shear I NW 1015 Sort Shear I NW 1016 Sort Shear I NW 1190 Sort		timo	anaataa	5	di=	hat	romarke	loc.
0608 Sort Steam NW NW 632 Sort Steam NW 633 Sort Steam NW 634 Sort Steam NW 6350 Sort Steam NW 636 Sort Steam NW 6370 Sort Steam NW 6381 Sort Steam NW 6382 Sort Steam NW 6383 Sort Steam NW 6384 Sort Steam NW 6385 Sort Steam 6385		Lime	Species		UII.	ILEC	I CIMOL NO	
0608 Sort Steam NW NW 632 Sort Steam NW 633 Sort Steam NW 634 Sort Steam NW 6350 Sort Steam NW 636 Sort Steam NW 6370 Sort Steam NW 6381 Sort Steam NW 6382 Sort Steam NW 6383 Sort Steam NW 6384 Sort Steam NW 6385 Sort Steam 6385		0550	begin obs	es	water.			
6632 Sort Sheer NW 1			Sort Shear		i e	Longon		
Google Bulmers P 1 2 W 1975 Start P 2 W 1975 Start P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P		0632	sooty Shear)	1	Name of the Party		
0745 Sorts Steen 1 080 Sharp petel 2 0830 Condontato 1 W 0852 Conto Petel 1 W 0858 Ward Petel 1 W 0858 Ward Petel 1 W 0932 Conto Petel 1 W 0932 Conto Petel 1 W 0932 Conto Petel 1 W 0935 Conto Petel 1 W 1015 Conto Petel		6039	Bulwers P	1	100			
0745 Sorts Steen 1 080 Sharp petel 2 0830 Condontato 1 W 0852 Conto Petel 1 W 0858 Ward Petel 1 W 0858 Ward Petel 1 W 0932 Conto Petel 1 W 0932 Conto Petel 1 W 0932 Conto Petel 1 W 0935 Conto Petel 1 W 1015 Conto Petel	1			2	W			
0942 corbs Part W 0852 corbs P, I NW 0858 corbs P, I NW 09723 corbs P, I W 0973 corbs P, I W 0973 corbs P, I W 0973 corbs P, I W 0975 corbs P, I W 1000 Wetgetwil I 1015 corbs I NW 1016 Sort Shear I NW 1150 Sort Shear I NW 1150 Sort Shear I NW 1150 Corbs P I W 1151 Corbs P I W		0745	South Shan	1		redicated the second		
0942 corbs Part W 0852 corbs P, I NW 0858 corbs P, I NW 09723 corbs P, I W 0973 corbs P, I W 0973 corbs P, I W 0973 corbs P, I W 0975 corbs P, I W 1000 Wetgetwil I 1015 corbs I NW 1016 Sort Shear I NW 1150 Sort Shear I NW 1150 Sort Shear I NW 1150 Corbs P I W 1151 Corbs P I W		0750	Bulmer's P	1			3 Asani	
0942 corbs Part W 0852 corbs P, I NW 0858 corbs P, I NW 09723 corbs P, I W 0973 corbs P, I W 0973 corbs P, I W 0973 corbs P, I W 0975 corbs P, I W 1000 Wetgetwil I 1015 corbs I NW 1016 Sort Shear I NW 1150 Sort Shear I NW 1150 Sort Shear I NW 1150 Corbs P I W 1151 Corbs P I W				2			George	
0852 Cords P. 1 NW 0953 Cords P. 1 W 0953 Cords P. 1 W 0953 Cords P. 2 NW 0953 Cords P. 2 NW 1000 Wedgetad I 1000 Wedgetad I 1005 Cords Sheen I NW 1150 Sorty Sheen I NW 1150 Sorty Sheen I NW 1150 Sorty Sheen I NW 1150 Cords P. 4 NW	1			1				
0858 085 P. 0923 085 P. 0923 5085 P. 0923 Cooks P. 0925 Co				1				
1000 Wedgetal 1 1015 Cooks P 1 W 1016 Scotts Term 1 NW 1016 Scotts Sheen 1 NW 1016 Scotts Sheen 1 NW 1017 Wedgetal 1 1018 Cooks P 1 NW 1018 Cooks P 1 NW 1018 Cooks P 1 NW 1015 Cooks P 1 NW 1015 Cooks P 1 NW 1015 Cooks P 1 NW 1020 Cooks P 1 NW 1020 Cooks P 1 NW 1020 Cooks P 1 NW 1021 Cooks P 1 NW 1025 Scots Sheen 3 NW 1025 Scots Sheen 3 NW 1025 Cooks P 1 NW 1036 Cooks P 1 NW 1037 Cooks P 1 NW 1038 Cooks P 1 NW	14			(
10930 Cooks P 1 W Walled 1 NW light 1015 Cooks P 1 W laght 1015 Cooks Steam 1 NW life of Cooks P		0903	GOZDP.	1	. ~			
10732 Cooks P W W Regist NW W W Regist NW W W Regist NW W W Regist NW W W Regist NW W Re			Soots Pern					
10935 God P 1 W light 1015 God P 1 Nw 1026 Sorty Shear 1 Nw 1150 Sorty Shear 1 Nw 1146 Cord P 1 Nw 1149 Mottled Petal 1 Nw 1158 Cords 1 Nw 1158 Cords 1 Nw 1158 Cords 2 Nw 1201 cords 1 Nw 1224 clan/petal 3 Nw 1224 She facebod 1 1244 Sorty Shear 1 Nw 1245 Cords P 1 Nw 1255 Sorty Shear 3 Nw 1255 Sorty Shear 3 Nw 1300 Jfp? 1305 Cords P 1 Nw 1315 Cords P 1 Nw 1447 Cords P 1 Nw 1447 Cords P 1 W				2	NW			
1000 Wedgetand 1 1015 Cool P 1 NW 1026 Sorty Shear 1 NW 1150 Sorty Shear 1 NW 1145 Cools 1. 1149 Mottled Petrol 1 NW 1158 Cools 1 NW 1158 Cools P 1 NW 1159 cools P 1 NW 1120 cools P 1 NW 1120 alan/petrol 3 NW 11220 Ble-freed Book 1 1244 Sorty Shear 1 NW 11245 Cools Shear 3 NW 11255 Sorty Shear 3 NW 11305 Cools P 1 NW 11447 Cools P 1 W				1				
1015 Continued Nw 1026 Sorty Shear Nw 1196 Continued Petrol Nw 1198 Continued Petrol Nw 1158 Continued Nw 1158 Continued Nw 1201 Continued Nw 1201 Continued Nw 1202 Continued Nw 1203 Shear frankbook Nw 1204 Sorty Shear Nw 1245 Sorty Shear Nw 1255 Sorty Shear Nw 1255 Sorty Shear Nw 1305 Continued Nw Flushed 1305 Continued Nw 1305 Continued Nw Flushed 1305 Continued Nw Nw Nw 1305 Continued Nw Nw Nw Nw Nw Nw Nw N			Wedgetuil	1			light	
1145 Cools 1. 1149 Mottled Petrol 1, NW 1158 Cools 1, NW 1158 Cools 1, NW 1201 cools 1, NW 1201 cools 1, NW 1224 chen/petrol 3, NW 1228 Bla-face Book 1, NW 1244 Soot Sheer 1, NW 1255 Soot Sheer 1, NW 1255 Soot Sheer 3, NW 1305 Cools P. 1, NW 1305 Cools P. 1, NW 1325 Cools P. 1, NW 1325 Cools P. 1, NW 1447 Cools P. 1, W	1.7		Cooling	1	Nw			
1145 Cools P. 1 NW 1149 Mottled Petrol 1 NW 1158 Cools 1 NW 1201 cools P 1 NW 1220 Blue furthered 3 NW 1244 Scots Schem 1 NW 1245 Cools P 1 NW 1255 Soots Shear 3 NW 1255 Soots Shear 3 NW 1300 JFP? 1 1305 Cools P. 1 NW 1 1325 Cools P. 1 NW 1 1325 Cools P. 1 WW 1 1447 Cools P. 1 W		1026		1	NW	L-		
1149 Mottled Peter 1 NW 1155 Cools 1 NW 1201 Cools 1 NW 1201 Cools P 1 NW 1244 Sher-frankbook 1 1244 Soots Shear 1 NW 1255 Soots Shear 3 NW 1300 JFP? 1305 Cools P. 1 NW 1325 Cools P. 1 NW 1325 Cools P. 1 NW 1325 Cools P. 1 NW 1447 Cools P. 1 W		_***		1	NW	w /		
1155 Cools 1 NW 1201 cools 1 NW 1201 cools 1 NW 1201 steen/peted 3 NW 1220 Blue-fund Book 1 1244 Soty Shew 1 NW 1245 Cools P. 1 NW 1255 So ty Shear 3 N. W 1300 J F P? 1 1305 Cools P. 4 NW 1 1325 Cools P. 1 W 1447 Cools P. 1 W 1447 Cools P. 1 W			Copens.	1				
1158 Cools P 1 NW 1201 cools P 1 NW 1224 shew/petral 3 NW 1244 stoty Shew 1 NW 1245 cools P 1 NW 1255 Sooty Shew 3 NW 1300 JFP? 1305 Cools P. 4 NW 1305 Cools P. 4 NW 1305 Cools P. 1 W 1447 cools P. 1 W				/				
1201 cooss P 1 NW 1228 Blue-forus Book 1 1244 Soots Shear 1 NW 1245 Cools P: 1 NW 1255 Soots Shear 3 N. W 1305 Cools P. 1 NW 1305 Cools P. 1 NW 1325 Cools P. 1 W 1447 Cools P. 1 W 1447 Cools P. 1 W		i		1				
1204 sleen/petrol 3 NW 1220 Blee-freed Boody 1 1244 Scots Shear 1 NW 1245 Cools P. 1 NW 1255 Soits Shear 3 NW 1300 JFP? 1305 Corris P. 4 NW 1325 Cools P. 1 W 1447 Cools P. 1 W	FV		cools P	,				
1223 Blue-form Book 1 1244 Sorty Shew 1 NW 1245 Cooks P. 1 NW 1300 JFP? 1 1305 Cooks P. 4 NW 1325 Cooks P. 1 W 1447 Cooks P. 1 W 1447 Cooks P. 1 W			0	3				
1244 Scoty Shear 1 NW 1255 Sorty Shear 3 NW 1300 JFP? 1 1305 Conside. 4 NW 1325 Conside. 1 W 1447 Cooked. 1 W								
1245 Condes P. 1 NW 1255 Sorty Shear 3 NW 1300 JFP? 1305 Condes P. 4 NW 1325 Condes P. 1 W 1447 Coodes P. 1 W		1244			NW	b	ameralise - Lead o upper nece trows	
1300 JFP? 1305 Consider. 4 NW Flushed 1325 Consider. 1 W 1447 Cooker. 1 W	11		Cools P	1				
11 1305 Consider. 4 NW Flushed 11 1325 Consider. 1 W 1447 Cooker. 1 W				3	Nw	1		
11 1325 Coc & P. 1 W 1447 Cooks P. 1 W				1	11.3			
1447 Cooks P. 1 W				4			Flusher	
				1				
	1			1				1
1-12 () 02	0			(NW			
			0		1		Seguli	4
1535 shear/petiel 2 NW longer than cooks - JFP size but appeared to have don't underway			, ,	1	NW		larger than cover VII style Des appeared to have the	
1606 Codes P. 2 NW	17.15		1.0	2	Alla			
1614 Arctictem 1 N								
1620 shear/petrel 1 NW			and a second	1				
11.70 R. duna ?			Butwery ?	,	1			
1600 tropulind		1600	tropulind	1	100			
1630 Soots Ten 3 E 1639 Cooks Peter I NW	9	1630	Cooks Petel	3				

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG - E

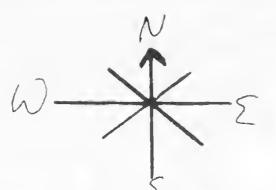
DATE /6/11 ay 65 Pg.

loc,

time species # dir. het. remarks shear/petres Cooks Petres 1650 181 18 1652 NW

NW Bulwer's 5 NW 1752 1755 NW 1810 NW 1825 NW 1830 Soots Shear / NW 1837 lud observations

seen from stem



time	species	5	dir.	hgt.	remarks	loc.
0540 0640 0640 0659 0700 0712 0743 0745 0755	Degin ohre Wedgetail Coosed P. Bulwer's Coosed P. Wedgetail Wedgetail Wedgetail Dard-myped P WTTB wedgetail Wedgetail Soots Shears Soots Shears Frigate Wedgetail Bulwer's P Wedgetail Soots Shears Frigate Wedgetail Bulwer's P Wedgetail Bulwer's P Wedgetail Wedgetail Bulwer's P Wedgetail Bulwer's P	212162111311111111111111111111111111111	THOU XUNDUNU SO NEW NOW NOW NOW NOW NOW NOW NOW NOW NOW NO		dard travelling-light light light light light light hight hight hight	

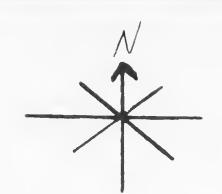
ω	E

timo	species	5 4	dir.	hat	remarks	loc.
time	species		ull e	IIRC	1 cmot vo	
0535	begin obse		-			
	leach of					
	Souty Shear		NW	1		
	shear/petrel	2	NW			
0615	Wedgetail	12				
0616	Sook shear		NW			
0617	shear / petal		NW			
0618	WITE	,	/0W			
0620	South Shew)	NW	2		
0625	Sooty Shear	T	NW	6		
0545	wedgetuil	1	Nh			
0714	DITT		NW			
0303	K 1 / 15	1				
	Balwers P	2				
°832 °845	BulwersP	1				
0846	Soots Tem	2				
0847	4 /	1				
0848		100	+		Redning	
010	shearpetrel	45.	+		feeding-spread out	
0902	shear / petro					
		/	NW		probably wedgetant	
	Bulwers?	1	NW			
0930	Bulwers P					
0932	RTTB	(
0933	SootsTen					
0937	Sorty Terr	1				
0938	Frigate	1			punature	
1007	5 ook Tem	23			feeding, then rise to 75 ft +	
	Fainy Tem	1			feedit) 1 100 11.	
	shear/petrel					
1013	Wedzelan	1				
1020	Sooty Tem	30				
	tam Tem	2			feeding	
	shear/pend	2				
1021	SortsShear	/	\mathcal{N}	1	C \$	
1042	Bulmerio P	1			A Section 2 to 1 to	
1044	Sooty Tem	25			travelling	
1	Fainy Tem	2			1 statesting	
1045	Bulwess	1				
1154	Soots Shew	2	NW	£"		
1215	Sooty Tem	25	+		feeding	
1218	shearfeeteel	2				
1220	tropichis	2				
1225	shear (petrel	1				
1236	SootsTern	28			5 break of 8	
	Sooty Shear	2		2	trong fording the rise	
1330	5 orth Tom	50	Ro	dine	1310 whale	337
	wedgetail	12	1 0	1		

DATE 18 May 65 Pg. # 2

3	N
W	2
en e	cies # dir.

time	species	5	dir.	het.	remarks	loc.
1345		1	W	110		
	s oots Tenn	2	W			
1410	SoutsTern		1			
	Neuello'S. ?		NW			
	Sooty Tem		4		tra alla	
1433	Sorty 5 Loan	2	NW	-	travelling	
1440	Sorts Tern	2	3			
1442	Sooty Shear	1	NW	V		
1445	Souty Ton	13	E I			
1500	SoutsTern	50				
	Wedgetan	8	1		feeding original block of 20 joined by 10 individuals	1
1515	stear/peter	2			of their group of 25 or so	
1212	5005 Tem) ±2			
1525	Wedgetal 8-27	3	-		feeding sphist in two- one with 2057+ WT	
	Soots En	43	±2		+ other with 30 x Z&WT.	
1532	Sort Ten	1	1		beeding	
1533	bird	1	1			
1550	stear/petrel	1				
t551	Jooly Tem	1				
1608	Soots Tem	50	15			
	Wedgetow	10:	t 2		feeding	
76	Frigate	1				
1610		11	INW	V	1 21	
1612	5 ook shows	1	NW	Led 1	A Test	
1615	Sorty shear	2	NW			
1620	shear/petrel	11				1
1635	//		1			
	Sooty Shew	1	Nw	V		
1653	sheartpetrel	1				
17/2	Sooty Shear	4 5		-	La Lathato	
1710	show/petrol	/		1	seen by lot mate	
1731	Sooty Shear	,	NW	1		
1734	Dars nump 9. ?	1			seen by Termite	
1745	JEPTORP!	1	NW		too for to be sure	
1755		1	NW			
1757		1.	5 N		Travelling	
1759		,				
1802			1 1/12	V		
1815	South Show		NW	V		
1822			(NW			288
			- 1			



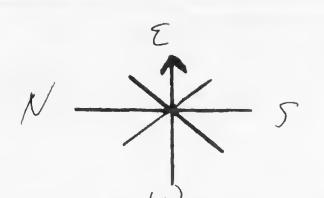
time	species	#	dir.	hgt.	remarks		loc.
					feeding		
1837	Soots Shear Bulwer's Foots Shear	1	Nw				
1836	shew/selver	/			O malina		
1844	<u> </u>	10 :	±5 =2 NW		feeding	5	
1855	,		vatro	~			
						63	
	c.						
							3.37
							699

2001/5765

\mathcal{N}
1

	time	species	5 #	dir.	hgt.	remarks	loc.
	0600	Nevello Shem	3			tropichis sp I before dans	
	0600	begin obse	1	tin		isopieco di appoint de que de la constante de	
	0605	Newell's S	ra	our w			
	0615	Soots Tem	1-				
	0625	burd	4	E			
	0635	bird	1				
	0073	Soostem Fryste	50	t5			
	0545	Sootyshear	/	1		Heeding	
	0655	Sove Tan	1				
	0655	Bulmer's	5			travelling	
	0656	Souty Tem	1				
	0700	SootsTem	3				
	0705	shear / petrel)				
	0735	wedgetul	75	±5		P .	
			8	± 2		Leading	
	0740	Wedgetul	3				
	0742	Newells	1				
	6746	SootsTen	125	±50			
		Wedgetail	25	1		feeding	
	5750	shedr/petral	/				
	0130	Newells					
			2				
	0754	South Tem	12				
	0757	Newells	1			glished	
	0808	Noddy)				
		Sooty Term shew/petres	40				
	0809	Sorty Shear	5		1	feeding	
	0810	Bulmer's o	1	NW			
	0820	WITB					
	0825	sootshear?		5			
	0845	Wedgeland	1				
	0855	Souts Tem	4	2			
	0857	shear/petiel	1				
	0905	Souts Term	1	W			
	09/2	Soots Tom	1				
	0930	tropicbrid	1				
3	010	Wedgeland	1				
N-A-S	1145	Bulmers	,				
W	1150	Sooty Tem	75	+-			
		Fain Ten	4				
		Frique	1			Jeeding	
		Wedgetart	4				
	1202	Wedgetarl	5			intermediate - sitting	
	1205	slear/petel	1				
	1210	5 out team	12				1100
	1212	Soots Tem	5			travelling	7/8

.



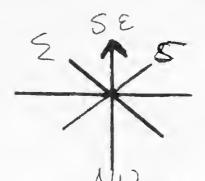
time	species	# dir.	hgt.	remarks		loc,
1230 1233 1303 1317 1435 1530 1620 1703 1713 1720 1725 1735	Species Newells Soots Shew Soots Shew Soots Term Soots Term Frigate Shew/petrel Soots Shew? Soots Shew? Soots Shew Soots Shew	1 1 1 1 1 1 8 1 3 5 + 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Leeding		loc。
						106

time species # dir. hgt. remarks	loc
Come species of dir. het. remarks 0515 Segui object returns 9528 Sept Ten 2 0716 Sort Ten 2 0815 Cauche 2 0815 Cauche 2 0815 Sort Steam 1 0950 Sort Steam 1 1017 Sort Ten 5 1018 Sort Steam 1 1019 Sort Steam 1 1010 Steam Steam 1 1	loc

E W

		N				
time	species	*	dir.	hgt.	remarks	loc.
-2.						
0532	Degn obser	rat	ins			
0725	Wedgetail	/				
0800	Sorty hear	/	N			
0850	Pom Jacos	1	1015			
09/5	Wedgetan	1	/ ω			
0925	jæger sp.	1				
1012	begin observed Wedgetail Soots hear Form Jaeoger Wedgetail Jaeger 20. With B Wedgetail? Soots Stean Learlis P Bulvers P	1				
1018	Soots scan	and o				
1019	Learn's P	1				
1032	Bulverst	1				
1047	0000000000	10/	NW			
1058	Coach's P	/				
1103	Pour Tueges	/	NW			
1110	Wedgetail	2	5			
1120	Kesmader P.	/	NW			
1202	Wadyetan	1			light	
1250	Soot Shear	7. 10 m	NW			
1545	Sooty Shew) 	NW			
1715	Sorty Shear	2	NW			
1735	SootyShear	d	NW			
1832	and obse	wei	tions			

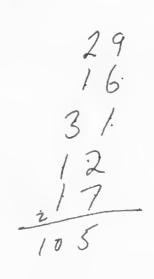
time	species	# d	ir. hg	t. remarks		10
0532	begin olika					
0553	5 Qua		UW			
0605	WNP					
0619	Soots Tem	11	VW	fairly bevied woller		
0620	shear/setrel	1				
0020	slear/petre	11			0.8.	
0001	Sooty Shews	1 4	JW	seen by lemite, l	vlute underparts, dark underwring	
0623	Sorty Shew		w			
0624	WTTB	1, 1	10			
0625	Sooty Slean	1/ 1	tw			
0635	Sooty lern	3				
0655	JFP	,				
1	JEP.	1				
0800	tropiclind	1				
0810	TEP	1				
0845	Bahrers	1				
	Leach's P	1				
0915	bird	2				
0922	shear/petrel					
1/30	Cooks P			2 +1		
1200	Balmer's P	1		sat house		
1405	Gors Petrol JFP	1				
	shear / petic/	1,				
119	JFP			/5/5	/ Whale + 20 or 20 porpoises headed 5 E headed 5	
1515		2			headed SE headed S	
1540	shear/petrel	/				
1600	JFP					
1605	JFP					
	Bulwer's	/				
635	JFP					
1638	Wedgelail					
1842	JFF					
1647	shear/petrel	/				
1746	JEP.	,				
1750	Wedgeton	/,				1
1724	TFP	(
1730	JEP	,				
(753)	RTTB	/				
	Wedgetar	1				
1810	SFP	1		1		
100	2 1 1		p.			
1830	had colo	arrici	ot worken			



		1	Jw				
-	time	species	#	dir.	hgt.	remarks	loc.
	0532	JFP	1				
	0540	Blue-fored Books	wat	ions			
	0540	Blue-fored Booky	1			immutura	
13, 000	0625	Nevell's S Cools Petrel	(
Dest	0632	CovesPetal	(NW			
		Vanelli S.	1	NW			
	0645	JEP	1				
	1	Newell's 5	1	NW		April 10 and 10 and	
	0655	shear/petiel	7	\sim		flying very petrellise	
		hind	1				
	0704		1			missing 1st and/or 2nd primaries	
		shear/potel	/			707 007	
	07/2	Nevellos.	1				
	0800	shear/peties	/,			broad while collar	
		Newell's 5?		VI.			
	0810	Leach's P	,	NW		Wadgetail /TFP	
	0820	shear/petul	2				
	10825	VFP	1				
	0828	alesa (not a)	1	+			
	0830	chount not al	l				
	10007	show/petral	/	NW			
	0909	WNP	1	NW			
11 . 7	0900	Cores 1	1				
6.4	0910	JFP	/				
()	0912	Cross P.		NW			
,	0915	JFP	1	NW			
	0918	JFP	1	NW			
		Wedgeton	1	M			
	0925	JED	(
11	0926	500	1	NW			
	2927	JFP	1				
	0928	shear/setul	/				
11	0932	she un/petrel	1				
* \$	0935	Cooly Cooly	1	NW			
	0942	ohen last a	1	NG)			
	1005	shear petiel	, 1				
33	1012	Cools	(
17	1020	Coseo	1	NW			
	1024	Long tailed Jaeyes	1	NW		eight, tail 3"+ - might possibly be Parakitri 5.	
	1028	Wedgetun ?	(eight, in many possibly se anature .	
	1029	JFD					
	1030	Bulwers					
	1047	JEP	1			2.0	
	1098	slear/petrol	1			In heavy rawsynall	
	1058	WNP	,				
	1200	Fairy Tens	1				
	1220	Newell's 5	1				

DATE 2 3 May 65 Pg. # 2

	time	species	かり	dir.	hgt.	remarks	loc
	1221	JFP	1			`	
BUP	12 39	SFP?	1	NW			
	1255	Wedgetail	2			dans	
	1303	JKP	1				
	1310	Wedgetail Wedgetail shear/petrel	1			dark	
		shear/ setiel	1				
	1322	JFP	1				
	1340	Soots Ten JFP	8				
		JFP Wadgatand	8			Lavelling	
		Namell's S.	1			der	
	1353	Wedgetail	1	500		Dars	
	1505	Newell's? shear/petral	1	NW		Date.	
	1514	Leach's P	1				
		Wodgetail	1			light	
	1535	Show / petrol	1				
	1540	VFP	1				
1	1613	JFP ColoP.	11	NW		hutter on - flapped without much effect	do
8-14	1630	Cools	1	NW		putters on propped to the much effect	
	1654		1				
	1728		1				
11000	1736	Colop	1	NW			
	1740	shear/petel					
	1802	Leach's P	1				
	1815			, ris			
		and obsta	Terr	livus			



	time	species	5 #	dir.	hgt.	remarks	loc,
	0528	lægir abser	va	tinis			
	0558	begin abser Blue-faced lody WNP	2			umatures	
	0559	slow/pote	1				
	0606	Shen net					
Day F.	0608	Wedgetal	1,	W		fast, very hing arco.	
	0609	Alreado + 1				dark Jak	
		slear/petrel shear/petrel	1				
	000	such petrel	1				
	0626	Bhofined Jarby J.F.P	1			all 3 together. 2 nearly white headed	
	0630	shore if setics	(3	
	063/	Wadgetail					
	0633	JFP JFP	1			dars	
	0647	Wedgetail	2/			Pholed.	
	0648	h)adgetund shear/petrol	1			dart molting	
[-1]	0705	Goods P	(W			
	07/3		2			molting	
	0725		43	561			
	0726	Wedgetal	1			dard	
	0727	JF P	12				
	0731	JFP Welgetuil	1				
	0732	Wedgeton	(dars	
	0733	JER	1			and a second sec	
	0750	TFP	2				
	0755	JFP 1)=1 7 0	2				
	0757	J FP	13			dure	
		Wadgetail	1			dark	
	0804	JIP	3				
	0808	Wodge Enil	1			der &	
		Welgetini	12			dark 0807/BFB-malybe one of 3-hard to say	
	0808	ATTB	1				
	0825	shew/petral	1				
	0838	JFP"	1				
	0842 0854	Wedgetair	1			dars	14
	0855		1			The state of the s	64

DATE 24 May 65 Pg. # 2

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ω ·	3	
speci	es # dir.	het. re

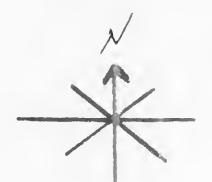
	time	species	黄	dir.	het.	remarks	loc.
	0858	JFP	1				
	0924	() edgetail	1			dus	4
	0926	Wedgetart	1			dark	
	6940	Wedgetail	(
		Nevel 20 5	1				
	0943	JFP	1				
		JFP.	1				
NF	0951	Corsce	1				
î	1000	JEP cools)				
1		Coolis	/				
4	10/4	Coolip	1	W			
		Newell's	1	NW			
	1025	TFP	スー			Elishod - one paddled on water	
	1028		2				
	1029	JFP	2			flushed	
	1030	RTTG	1			fliched	
	1046		(
	1047	Bulwer's P.	1			dars	
	1103	JFP				1/15 1	
	1017	Newell's S.	1			1/15 tremendoro ochool of 2-3" squie	1
à.	1119	Cooks P	,			breaks surface o'flies' 50 ftm	20-
	1125	JFP	/	į		Probably 1/000	
	1136	Coops.	1				
	1141	JFP	2				
	1150	shear/petrel	1				
	1158	1 FP	,				
	1215	Wedgetail	13				
	1220	Walsetin	1			Dan's - flushed - moloning	1
	1225	Coole	1			dare Ocere	
	1237	Wedgetul	1				
)	1250	crosso	2			Physhed dark	
	1259	Wedgetuil	1			A	
11	13.05	Goods P	2		1	dark	
		S JFP	1				
	13/0	Walyetail	1				
	13/2	JFP	1			clare	
	1314	Dedgotal	1			dans	
	1315	Thear / petrol	1		1	and a	58

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 24 May 65
Pg. # 3

dir. hgt. remarks species loc. 7 Colon 1323 Loach's 1324 JFP 1326 JFP. 1227 NW 1728 NW parched dur 1339 60000 1340 1340 JFP 1355 JFP 1356 Suozis 1410 RITIB dual from 50 ft 1425 NW JFP 1435 NW 1450 Cools P NW P. e/ 1457 WNP? 1458 RTTB JFP 1505 1510 Wadgetuil day 1530 1535 TFP 13 1540 JFP DRR? 1547 TFP 1557 JFP JFP 1555 1605 Level to 16/0 TFP Cools 1612 Wedgetail JF1 1620 dans 1621 Coolsp 1622 NW JFP 1624 Navel's 1625 N 1629 Leach's Bulvers 1630 Newells flushed 1640 TFR 3 23 64 50 .56 1642 JFP 1644 60085 NW 1647 Shear-Petrel 1650 NW Cook 193 1652 6000 NW

4.9. 3327.



DATE 24May 65 Pg. # 4

	time	species	S dir.	het.	remarks	loc.
	1710	JFP TFP	2		Collected 1715	
, ,	1728	Cooks P	/ Y			
7 1	1732	shem/petel Cools JPP	2		large, all dans, seen by Terrinte (larger than Wedgetant)	
	1741	JFP JFP Sham/petul				
	1800	JFP JFP				
	1803	JFP WNP? JFP	43		flushed	
1 .8	1810	JFP and obse	1 2 mations			
						23

	N	
6		-a

			hgt. remarks	loc.
0525 0555 6558	begin obse Wedgetand JFP Aheus/petrel JFP TFP	wationis 2 3	13. bott light	
			WT/JFD	
0700 0715 0716 0730	JFP JFP Wedgetuil JFP	1211	dark	
0830	JFP JFP JFP Shear/petrol WNP			
0902	JFP			
1105				
1332	JFP Bulwer's P Bulwer's P	1 1 1 1	flurhed	
1605 1630 1633 1650	JFP JWNP	<i>(</i>	light	
1720	JEP	/ /	light	
1820	End observ	ateris		

DATE 26 May 65
Pg. # 1

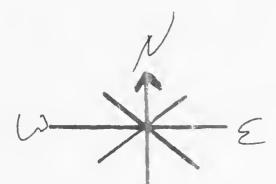
	ime	species	# dir.	het.	remarks	10
	0625 0626 0635 0642 0650 0705 0706 0710	begin obse JFP JFP WNP shan/petal shear/petal	112 1 KW		light	
	0725 8726 0816 0817 0815 0817 0818 0818	Bulwer's? Sorty Shew JFP JFP Sorty Shew JFP JFP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Abe slightly smaller. ??	
Y	1105	JFP JFP WITB JFP Wedgetner JFP	150±5 110+ 10+		milling around couldn't see any other shapes than JPP's. Possibly feeding observed to 10 minutes or so at distance of 12-1 mile from ship. dark perhaps a splinter of 0900 flors - sewthing & feeding	
	1240 1242 1305 1320 1335 1355 1400 1410	Cooks P Cooks P Cooks Speker JFP Wedgetund JFP Soots Shear Shear/petrel chear/petrel with B	1 NW 2 W		Medin large - dank brownabove, dank underwing, Possibly white breast & helly-to far to be stare. ?? most showed some white through dark wing feathers, according to sugarilight	



SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E

DATE 26 May 65 Pg. # 2

		-			remarks	
1433	alous/ setiel	3				
	Sorts Tem	51	2_			
	Shear/petrel	20	#5		Reeding? distant	
	shew/ petil					
	shear/petrel				dans.	
1	shew/petel	/				
	WNP				might have been Newell's	
7 2 0	ナドア		E		flushed	
1529	TFP		٤			
1540	JEP	16	ε			
	WNP	1			travelling-jonied by above 3 to make 20	
610	shear/jeted	1				
1615	TEP	1				
1620	JER	,				
	Dank-numped Peter	1			see by Termite - "very dan't back" came close	
1809	Wedgeland	-1			light	
	JEB, WNP	2			angus,	
815	Wednester				Alushed	
1823	JFP	1			light	
		(
1825	end of	o e	wale	ris		
,						



SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 27 May 65
Pg. # 1

time	species	dir. het.	remarks	1
0518	begin olose Soots Shear Bulwer's Leads 10? Soots Shear RTTB Soots Shear	wations 1 NW	1625 large whate	
	Souty Shaw			

SMI AT

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG --- E

DATE 28 May 65
Pg. #

time	species	S d	ir.	het.	remarks	loc
0502	begin ob. Shoan/patiel	serva	tin	7		
1615	Newell's BFA Newell's Sooty Shews	2			1200 IBFA	
	Newell's	2			1400 1750	
	Newell's 5 Newell's				flew back & forth around ship, unconcerned about migrating north, acted more like followed alongied. This was clearly a 5.5.	
1800	Sooty Shear		NW		followed alongside ship, coming close enough three cameright under bow but I was on bridge Free.	
1043	and or	lisec	vati	and the same of th	Je Fran.	

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 29 May 65 Pg. #____

time species # dir. het remarks loc. seen by Jan - lunge probably all dank, flapped 0450 Constantly, not an albations. 05/0 begin observations 0540 Sootshear 1 NW 0800 Dark-rumped 0920 Wedgetant came by very close - modoubt 1100 Bulwer's 1137 WITTB 1255 WITB 1303 Arctic Tem 1310 Sooty Shear 1330 Kermadee P light 1342 Dark-rumpal 1355 Soots Shew 1425 Cearlipp 1455 Frigate Wandering Tatter Frigate 1815 1850 and observations

DATE 80 May 65
Pg. # 1

time	species	# dir. het	remarks	loc
	1			
0535	begin oli	servations		
06/0	Soots Tem Newells Ham	39		
	Newells 10	3+	teadmay	
	Park-rumped P			
0/25	Engate Budwer's	1.	9	
0655	Dark-rump P. DRP? Wedgeton Borin Is P	1		
0656	DR D7	1 5		
0657	Wedgeton	1 5		
0700	BouinIsP			
0705	Wedgetar	15		
0710	shear /1171			
0720	DRP?	2 5		-
0728	shear/petrel	//	might have been large Bonnis	
10729	bud	1		
0732	Sout Shaw?	IN	Frighte or 5 outs Term	
	RTTB			
0955	Bulwers	1		
0795	5 oots Tens	65 ± 3		
,	shear/petul	5+	feeding	
1030	Sooty Term	50		
	Wedgeton	2		
	Kennadee??	//	light feeding	
	shour / petiel	2	possibly Newell's.	8
1040	shear/petral	1		
1143	Soots Tem	60 ±10	Wadgie or Newells (capt.)	
	shear (petre!	5+	beeding	
1144	SootsTern	2	heading toward flock	
1145	SootsTen	1		
1145	Prigate	1		
1147	()			
1215	Soots Tem			
1230		3		
1,730	Soots Term Wooddy Jerry Wedy etan	91±5 2		
	Newello S.		Recding	
1310	Long-tailed Jago	171	4/"central rectives - virtermediate phase	
1310	Scots Terri shows / Retres	75 \$	feeding	

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY LOG — E

DATE 30 May 65
P8.# 2

ime	species	*	dir.	hgt.	remarks	loc.
1335	Wedgetun					
	SootiTen					
1338	Bulwer's					
339	Wedgetril	1				
1400	Sortstem	2				
1402	Wedgetuil	1				
1404		2				
1405	Newells					
1405	chear/petil					
1406	Sout Ton					
1908	Newell's S. Souty Ten	1				
		1				
1430		2				
1750	Bulivers	1	/			
1755	Sooty Shear.	1	W		fred at.	
615	Showfeliel	1				
1620	SovyTen	75	+25			
1/21	shear/petel	5+			Leeding	
1621	Soots Tari	2				
	SootyTem	5+			feeding	
1627	Wodgetail	(
1640	Dark-nump Peter Souty Term	4				
	Shoon/petrel	50 ±	15		Leeding	
1643	W constant	1+				
1658	shear/petrel	,				,
	Park-rung	,				
1710	Sorty Ters				fred at from long wayoff	
7/2	1 / 1					
1715	South Tem	65	t15			
1/5	Frigula	9	115			
	Them/petal	5			beeding flock	
1723	show/petal					
	//					
. 7 30	SootsTom	9 1	t15		Leeding	
	shour/petres	57			feeding	
1755	Dark rumped P	2				
	shoor petrel shear/petrel	1,				3

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E

DATE 30 May 65 Pg. # 3



time spe	cies # dir. he	t. remarks	1	oc.
1837 Sort	35hear 1 WW			
1838 And	Shear I WW the Ten I N daretal I Shear 4			
1837 We	OCETAIL 1			
1850 Soot	3 Tem 4			
1105 500	tylem 175+25	100din		
19/5 Neg	Well's 100 t25	feeding Idars		
	Obewations			
,				
				312
				734

show / petral

Soots Ten

Noday Tem Sosts Tem

elean/petrel

chear/petral

Sorts Tem shear peted RFB Wedgetul

Bulwer's

Soots Jan

Soots Term

SouthTem

2

0753

07.54

0.800

0810

0811

0813

0815

0818

0823

0824

0837

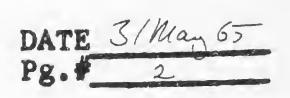
6840

DATE 3/May 65
Pg.#

loc. # dir. hgt. remarks species time 0540 Degir observations 0542 SootyTen 0543 0545 South Ton 0547 rheas/peter 0555 Bulwer's P 0556 Wadgetail she di / petal 0605 possibly DRP Sorts Tem 06/2 500g Tem 0615 0620 Soots Tem 0621 st Apprid Sootsiers 0638 SootsTen 0639 0648 Soot Tem 0649 0650 500ty Ten 0650 shearpetres 0651 shear/petel 0659 Sorts Tem 0659 shour/petrel Bulwer's P 0700 Soot Term 0703 soots Tem 0704 Frigate South Term 0705 0706 3 Words Jam Sooty Tem 6707 32 Soots Tem 0708 Newell's S Bulmer's P 0.709 0710 0714 shew (petrel Bulwers P 0715 3 0720 Wedgetand shear/pelies 0725 67.26 South Ten Wedgetan 0750 Soots Tem 0753

7

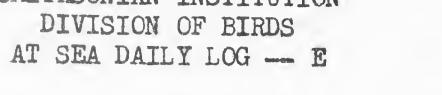
SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E





time	species	# dir. het.	remarks	loc.
0900	07-2			
0910	Waggetan	1		
0115	South Tem	3		
0916	Sort Ton			
0917	Wadgetail South Tem South Tem South Tem South Tem	2		
0918	Soot Tem	2		
0919	shew/petrel Sorty Tem Wedgetail Sorty Tem Shew/petrel Nobely Tem Shew/petrel Sorty Term Shew/petrel Sorty Term Shew/petrel Sorty Term Nobely Tem Nobely Tem			
0930	South Ten			
0931	Wedgetail			
0945	Soots Tem	400		
	sheep/ netros	700 ±/00	beeding	
0945	Wat of T			
0941	C t Tage	1		
0947	shear In til	/		
0948	S-ot Ten			
	Woods Ton	1/		
0950	Sort Tem			
1005			1	
		35	beeding	
1006	Soots Shear			
1006	Soots Du	1		
1006	Souty Tem			
1000	5 rots Tam			
1002	· Sorty Ten	1.		
1003	500th Tom	1		
1018	Hoddy Tem			
1019	Noda, Ten			
1020	Noddy Ten	4		
1022	temap			
1023	Frigato			
1025	SouthTen	., .		
1027	5 outs Ten	Of SE		
1028	Bulwer's P	25 \$10	Jeeding - Instant	w.
1029	Sorty Ton	1		
1029	shear/petrel		size of cooss, white belly, darkundaning? (Termite)	
1032	Soots Term	/	Je of the manning. (remine)	
1033	Wedgetarl	1-		
1034	Soot Tem			
1037	Wedget	ml /		
1040	Wedgetail	/		
1047	shear/petal	/		
1055	Soots Term	500 ±100		
	RES C	100 ± 50	fooding.	
	Friguto	3+	7	
1056	Wordy Term	^		
1256	Wedgetand	4		
105	Jelan			
1100	Soots Ten			
	NodlyTen	1 5		1233
	Ledgeturk	4	Redung	
	Rugate	1 RFBZ		and the same of th

SMITHSONIAN INSTITUTION DIVISION OF BIRDS



DATE 3/May 65
Pg. # 3

time	species	1 1	hgt. remarks	loc.
1105	South Term RFB J Frigate	750 ±200 200 ± 100 3		
	KFB S	3 700	feeding	
	structe	2		
1112	Soots Ten	100 ± 25		
	Noddy Ten	50±25	(1	
	Badgelow	25±10		
1120	Soot Ten	200 +50		
	Norday	100 = 50	1 /	
	Frigato	5		
	Wedgetail	40 +20		
1127	Nodsten	1		
1130	Soots Ten North Ten Wedgetand Soots Ten North RFB Frigate Wedgetail North Ten sheer/petrel	1		
1131	1000	(
1136	Noddy Noddy	/		
1137	Noday	/		
1138	Nolde	,		
1739	Node			
1740	Node	/		
17041	Wedgetand	1		
1142	Frigato	1		
1200	Frigato	2-		
1201	Nodely Tan	1-		
12/0	Noddy Ten	250 ± 75		
	Wedgetan	50 ± 25	Leeding	
	RFB.	1+		
1230	Sorty Tem	13		
	Nordy len	(8)	travelling	
	Sorts Tem			
	Nodely	10 20		
	Wedgetail	20	feeding	
1235	Wedgetail	2		
	Toots Tem	2		
1	VoddyTen	10 50		
	Wedgetal RFB	50	feeting they sectioned force	1360
	Friguto	2		750
17.10	Bolivers Voddy Tem	1		2/10
- 11	- oon lem	15		4

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E



DATE 3/May 65
Pg. # 4

	species	# dir.	hgt.	remarks		loc.
1247	Soots Terr Nordding Wedgetril	4 4 3		Deathered		
1250	Noddy Tem Wadgetail RFB	50		feed.		
	Fain Tem	1		(cedure)		
1255	Soots Tem Nody Tem Wedystail Soots Tem	3. 5 100 ±5		sented in their		
	Sootis Tem Noddy Ten 7 Wednetal 7. RFB Brown Books	50 ± 20 50 ± 20		feeding		
1305	Wadgetaile Norty Ten Sorty Ten	5 3 1		scattered		
1315	Soots Tem Noddy Tems Wedgetand	20 125 25		Jeeding-		
1317		2				
1325	Wedgetand Wedgetand	J. /		stattered		
1327	Noddy Tem Sorts Tem	27		Deattered		
1328	Noddy Ten Frigato boots Ten					
1335	Sooty Tem Woody Tem Wodnetail	1 -1				
	Brown Rook Sook Tem	2		feeking		
	Wedgetail REB	150 50 6		feeding		
1350	Soots Term Noddy Term Wedgetarl	10		11	,	// 2

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA DAILY LOG — E



DATE 3/May 65
Pg. # 5

ime	species	# dir	het.	remarks	loc.
	Soots Tem	10			
		55		feeding	
	Wedgetail	10			
	SootsTem	5			
	NoddyTem	4			
	Beyl-FR			scattered /	
,	Frigate	1		1/	
405	Sooty Com	3		scallend !	
	Hordy Ten			Scatter	1
1408	SootsTen	2			
	1 1 1			scattered 1 / 1/200	
	RFB	2		scattered !	
	Dedgetan	2			
499					
144	Noday Tem			<i>'</i> ,	
		2			
1410	Soot Ten	2			
1413	Sorty Tem	2			
1110	Nodely Tern	10	and a second	1 1	
	RFR				
1415	Soots Ten				
	Noddy Tan	70		freeding	
				2. 0/5.	
14/6	Woddy Tem			scattered no fl	
	RHB	2			
1,,,,	Wedgetail	1/			
1435	Nordy Ten	(16.
1770	Sooty/em	2			
1443		8		travelling	
1445	Esignato	4			
1450	V				
1453	0000	4			
1454					
1457		2			
1459	, - Just	1		/	
1500	wodgetail	5		scattered,	
1503		11			71
1515		12		travelling	123
1515	Worldy	1	1		20
1515	and obser	1.			476

```
DATE 12 111 4 55
                            Time at sunrise = 1300
                                                                                                                                                                           Position at sunrise = 21°19'N 157°58'W
                                                                                                                                                                       Position at sunset = 2^{15} \times 15^{15} \times 15^{
                             Time at sunset 1857
                             Miles traveled from 0000 hours to sunrise
                             Miles traveled from sunrise to sunset = 60
                             Miles traveled from sunset to 2400 hours
                                                          TIME OF FIX
                                                                                                                                                     TYPE OF FIX
                                                                                                                                                                                                                                                LONGITUDE
                                                                                                                                                                                                                                                                                                                                LATITUDE
                             1,
                              2.
                             5.
                             6.
                             13 May 65
                                                                                                                                                                           Position at sunrise = 18 + 8 \times 157^{\circ} 00 \( \text{W} \)

Position at sunset = 16^{\circ} 5.3 \times 11^{\circ} 15 7 \( \text{W} \)
                             Time at sunset | 8 \( \frac{1}{2} \)
                             Miles traveled from 0000 hours to sunrise
                             Miles traveled from sunrise to sunset =
                             Miles traveled from sunset to 2400 hours
                                                          TIME OF FIX
                                                                                                                                                     TYPE OF FIX
                                                                                                                                                                                                                                                LONGITUDE
                                                                                                                                                                                                                                                                                                                                 LATITUDE
                             1.
                             2.
                             3.
                             4.
                             5.
                              6.
```

```
DATE 14 May 65

Time at sunrise 0559
                                                                                                                                                      Position at sunrise = 15^{\circ} of 157^{\circ} of 157^{\circ}
                           Time at sunset 1846
                            Miles traveled from 0000 hours to sunrise = 55
                           Miles traveled from sunrise to sunset =
                           Miles traveled from sunset to 2400 hours
                                                     TIME OF FIX
                                                                                                                                    TYPE OF FIX
                                                                                                                                                                                                                   LONGITUDE
                                                                                                                                                                                                                                                                                         LATITUDE
                            1.
                            2.
                            3.
                            5.
DATE 15 111 am 65
                            6.
                                                                                                                                                     Position at sunrise = 1/29/N 156°56'W
Position at sunset = 10°27/N 154'52'W
                           Time at sunset \frac{835}{4}
                           Miles traveled from 0000 hours to sunrise
                          Miles traveled from sunrise to sunset =
                           Miles traveled from sunset to 2400 hours
                                                     TIME OF FIX
                                                                                                                                    TYPE OF FIX
                                                                                                                                                                                                                   LONGITUDE
                                                                                                                                                                                                                                                                                         LATITUDE
                           1.
                            2.
                           3.
                           4.
```

5.

```
DATE / 65

Time at sunrise = 1
                          Position at sunrise = 10°44'N 153°59'W
    Time at sunset
                          Position at sunset = 12°54'N 154°03'
    Miles traveled from 0000 hours to sunrise = 52
    Miles traveled from sunrise to sunset = 130
    Miles traveled from sunset to 2400 hours = 39
         TIME OF FIX TYPE OF FIX LONGITUDE
                                                LATITUDE
    1,
    2.
    3.
    5.
    6.
    17 Mia 65

Time at sunrise = 3
                                           = 14°30'N 153°59'W
    Time at sunrise
                          Position at sunrise
                                          = 16 44'N 153°57'W
    Time at sunset 1840
                          Position at sunset
                                            = 57
    Miles traveled from 0000 hours to sunrise
    Miles traveled from sunrise to sunset = /34
    Miles traveled from sunset to 2400 hours
                      TYPE OF FIX LONGITUDE
         TIME OF FIX
                                                LATITUDE
    1.
    2.
    3.
    4.
    5.
```

```
DATE Man 65

Time at sunrise = 542
    Miles traveled from 0000 hours to sunrise = 68
    Miles traveled from sunrise to sunset = /32
    Miles traveled from sunset to 2400 hours = 56
        TIME OF FIX
                     TYPE OF FIX
                                  LONGITUDE
                                               LATITUDE
    1.
    2.
    3.
    4.
    5.
    6.
     19 May 65
   Time at sunrise = Position at sunrise = 1847

Time at sunset = Position at sunset = 1579
   Miles traveled from 0000 hours to sunrise
   Miles traveled from sunrise to sunset = 136
   Miles traveled from sunset to 2400 hours = 52
        TIME OF FIX
                     TYPE OF FIX
                                  LONGITUDE
                                              LATITUDE
   1.
   2.
   3.
   4.
   5.
   6.
```

DATE 20 May 65Time at sunrise = $23^{\circ}03^{\prime}N$ Time at sunset $\frac{18}{37}$ Position at sunset = $\frac{1}{3}$ Miles traveled from 0000 hours to sunrise = 49 Miles traveled from sunrise to sunset = 129Miles traveled from sunset to 2400 hours = 37 TIME OF FIX TYPE OF FIX LONGITUDE LATITUDE 1. 2. 3. 5. 6. Position at sunrise = $19^{\circ}11/\mathcal{N}/50^{\circ}$ Time at sunset = 1820 Position at sunset = 17018/11Miles traveled from 0000 hours to sunrise Miles traveled from sunrise to sunset = //3 Miles traveled from sunset to 2400 hours = 63 TIME OF FIX TYPE OF FIX LONGITUDE LATITUDE 1. 2. 3. 4.

5.

```
DATE \frac{\lambda \lambda M ay 65}{\text{Time at sunrise}} Position at sunrise = \frac{5^{\circ} 22 M 150^{\circ} 18^{\prime} W}{150^{\circ} 18^{\circ} 18
                               Time at sunset \frac{825}{2} Position at sunset = \frac{13^{\circ}}{10^{\circ}}
                               Miles traveled from 0000 hours to sunrise = 53
                              Miles traveled from sunrise to sunset = 13/
                                                                                                                                                                                                                                                                                                   = 39
                              Miles traveled from sunset to 2400 hours
                                                                                                                                               TYPE OF FIX LONGITUDE
                                                             TIME OF FIX
                                                                                                                                                                                                                                                                                                                                        LATITUDE
                               1.
                                2.
                               3.
                                5.
                                                                                                                                                                              Position at sunrise = // 37 / 5/
Position at sunset = /// 37
                               Time at sunrise = \frac{37}{}
                                 Time at sunset
                                Miles traveled from 0000 hours to sunrise
                               Miles traveled from sunrise to sunset =
                               Miles traveled from sunset to 2400 hours
                                                                                                                                                                                                                                                                                                                                          LATITUDE
                                                              TIME OF FIX
                                                                                                                                                           TYPE OF FIX
                                                                                                                                                                                                                                                        LONGITUDE
                                 1.
                                 2.
                                 3.
                                 4.
                                 5.
```

```
Time at sunrise = Position at sunrise = 10^{\circ} or 148^{\circ} or 148^{\circ}
    Time at sunset \frac{1811}{2} Position at sunset = \frac{11059}{197959}
    Miles traveled from 0000 hours to sunrise = 50
    Miles traveled from sunrise to sunset = //8
    Miles traveled from sunset to 2400 hours
         TIME OF FIX
                       TYPE OF FIX
                                     LONGITUDE
                                                   LATITUDE
    1.
    2.
    3.
    4.
    5.
    6.
DATE
                           Position at sunrise = 13°45 N 147°57'w
                  Position at sunset = 15531114758 w
    Time at sunset
    Miles traveled from 0000 hours to sunrise
    Miles traveled from sunrise to sunset = /2 9
    Miles traveled from sunset to 2400 hours
         TIME OF FIX
                       TYPE OF FIX
                                      LONGITUDE
                                                   LATITUDE
    1.
    2.
    3.
    4.
    5.
    6.
```

```
DATE 26 May 65
    Time at sunrise = Position at sunrise = 17 29 148 00 148
                        Position at sunset = 19°08'N 148°01'W
    Time at sunset
    Miles traveled from 0000 hours to sunrise = 5/
    Miles traveled from sunrise to sunset = 79
    Miles traveled from sunset to 2400 hours = 60
        TIME OF FIX
                      TYPE OF FIX
                                   LONGITUDE
                                               LATITUDE
    1.
    2.
    3.
    4.
    5.
    6.
    27 Man 65
                       Position at sunrise = 20°57/N /48°55' W
    Time at sunset 18=31
                       Position at sunset = 23^{\circ}7!/V /48°00' (3)
    Miles traveled from 0000 hours to sunrise
   Miles traveled from sunrise to sunset
   Miles traveled from sunset to 2400 hours
        TIME OF FIX
                     TYPE OF FIX
                                   LONGITUDE
                                               LATITUDE
   1.
   2.
   3.
   4.
   5.
   6.
```

DATE 28 Man 65

Time at sunrise = Time at sunrise = Position at sunrise = 25°02/V /47°55/W

Time at sunset = Position at sunset = 26°08/V /48°46/W Miles traveled from 0000 hours to sunrise = 55

Miles traveled from sunrise to sunset = 131

Miles traveled from sunset to 2400 hours = 60

TIME OF FIX TYPE OF FIX LONGITUDE LATITUDE

1.

2.

3.

5.

Time at sunrise 05/2Position at sunrise = 25°01'N 150°41'W

Position at sunset = 15°02'N /52°48'W

Miles traveled from 0000 hours to sunrise

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours

TIME OF FIX TYPE OF FIX LONGITUDE LATITUDE

l.

2.

3.

4.

5.

```
DATE 30 \text{ May } 65
Time at sunrise = 29
                                 Position at sunrise = 24058M1540441W
                                 Position at sunset = 24^{\circ}24^{\prime}N 156°59′W
     Time at sunset \frac{1900}{4}
     Miles traveled from 0000 hours to sunrise = 5 \%
     Miles traveled from sunrise to sunset = 154
     Miles traveled from sunset to 2400 hours = 54
                          TYPE OF FIX LONGITUDE
           TIME OF FIX
                                                              LATITUDE
     1.
     2.
     3.
     5.
     Time at sunrise =
                                Position at sunrise = 22^{\circ} 35/\mathcal{N} / 56^{\circ} 59/\mathcal{W}

Position at sunset = 21^{\circ} 15/\mathcal{N} / 157^{\circ} 49/\mathcal{W}
     Time at sunset 1520
     Miles traveled from 0000 hours to sunrise
                                                   = 104
     Miles traveled from sunrise to sunset
     Miles traveled from sunset to 2400 hours
           TIME OF FIX
                            TYPE OF FIX
                                              LONGITUDE
                                                              LATITUDE
     1.
     2.
     3.
     4.
     5.
     6.
```

May 1965 BCF Townsend Cromwell Cruise No. 16

The May 1965 Townsend Cromwell cruise, from 12 May to 31 May, was the fourteenth of a series of 15 monthly cruises run by the U.S. Fish and Wildlife Service's Bureau of Commercial Fisheries to the south, east, and north of the high Hawaiian Islands for the purpose of determining monthly variation in the structure and position of water types and currents in the area.

This was the thirteenth cruise in which Pacific Project personnel have taken part. Daily sunrise to sunset bird observations were made for a total of 250.8 hours. In addition Project personnel assisted in making standard marine weather observations and in recording bathythermograms. Warren King was the sole Project personnel aboard this cruise.

Warren B. King Research Assistant Pacific Project

General Summary

Numbers for May totalled 9185, considerably higher than previous months. Excepting 31 May, the last day of the cruise, numbers were roughly comparable with May 1964. However, on 31 May record numbers (4761) and flocks (23) were encountered just north of Oahu. These flocks were comprised mainly of Sooty and Nuddy Terns, both of which reached record numbers. The area of greatest density was, of course, just north of Oahu, but numbers were considerably higher than usual up to 300 miles north and east of the high Hawaiian Islands. A small secondary density center in the southern portion of the area was due to the influx of Juan Fernandez and Cook's Petrels from the south.

Of interest were the following sightings: a Mottled Petrel, 3 Kermadec Petrels, 16 Dark-rumped Petrels, at least 2 Long-tailed Jaegers, a Skua, 7 Arctic Terns, and the first at sea record of a Wandering Tattler.

It is felt that there is a connection between the very large and numerous flocks seen near Oahu and the fact that Oahu Skipjack Tuna fishermen are experiencing a record catch this summer.

The data gathered appear: to be comparable with those of previous months.

Species Account

Black-footed Albatross

Only three individuals were seen, one just south of Oahu and two in the northeast corner. The considerable reduction in numbers from 20 in May 1964 may indicate either an earlier breeding season this year or a relatively unsuccessful one. In either case birds would probably be less apt to occur in the area. Water of less than - 34.8 percent salinity, which has been suggested as a possible range limit, extended nearly throughout the area as well.

Wedge-tailed Shearwater

Numbers increased 46 percent from 516 in April to 958. However, this was far short of the 1637 recorded in May 1964. In May 1964 a third or more of the total was seen at the southern end of the area; this density center failed to appear this month. Numbers around the high Hawaiian Islands were even higher this month, though. Large numbers were taking part in feeding flocks just north of Oahu. Dark phase birds penetrated just into the extreme southern end of the area. Most dark birds were molting.

Newell's Shearwater

Two general density centers for this species were seen in Mqy, one in the southeastern corner, and the second around the high Hawaiian Islands. This distribution pattern has been seen in several previous months as well. Numbers increased to 49 this month,

somewhat below the May 1964 total of 66. In May 1964, 24 birds were seen in the southwestern corner, but in May 1965 the birds were not found there at all, but rather in the southeastern corner.

Sooty Shearwater

Of 222 birds observed this month, 81 were seen on 13 May. Two were taking part in a feeding flock. Almost no birds were seen on the 148° N leg. This has been noted on previous months as well. It may indicate that the migration route is centered on the Hawaiian Islands. Only a few individuals are expected in June.

Kermadec Petrel

Two, possibly three, individuals were seen in May, all north of 17° N. All were light phase birds. These are the first May records of this species in the area. Previously none had been seen until July.

Dark-rumped Petrel

A new record high of 16 individuals was seen in May. Most were either very near the island of Hawaii or north of the high Hawaiian Islands, although one was seen as far south as 12° N. Two were seen flying together for the first time on 30 May.

Mottled Petrel

One bird was seen on 16 May heading north at the southern end of the area.

Juan Fernandez Petrel

All 263 birds plus 14 with white napes, previously called White-necked Petrels, were found in the southeastern portion of the area. The limit of penetration is indicated by a line from 19° N on the eastern leg to the southwestern corner. This distribution is generally identical to that of May 1964, although fewer birds (165) were seen last year. One bird was collected. Most individuals were undergoing molt. It is felt that distinction between subspecies of this species is not safe on the basis of whiteness of nape alone.

Bonin Island Petrel

One bird was seen at close range on 30 May, north of the high Hawaiian Islands.

Cook's Petrel

Practically all of the 147 birds seen in May were in the southern end of the are. Although fewer (69) were seen in May 1964, the distribution pattern was identical. Most birds were flying swiftly toward the northwest.

Bulwer's Petrel

The majority of the 97 birds seen in May were within 100 miles of the high Hawaiian Islands. The remainder were scattered fairly randomly throughout the area. Fewer birds were seen in the southwest corner than in April. A large flight of some 72 individuals seen just south of Lauai in May 1964 accounts for the difference in numbers between this May and May 1964 (178).

Leach's Petrel

Numbers dropped considerably from 304 in April to 32 this month as the birds moved north to breed. Distribution was fairly random although 10 were seen on 12 May south of Oahu.

White-tailed Tropicbird

Fourteen birds were seen in May, a slight increase from 8 in April, but below the record 24 seen last May when the ship passed close by cliffs where the birds were breeding on Maui.

Red-tailed Tropicbird

Nine of the thirteen seen in May were south of 15° N. Almost twice as many (25) were seen in May 1964.

Blue-faced Booby

All 5 birds were at the southern end of the area, as has been the case in previous months. Three were flying in a group on 24 May, returning to the ship several times over a period of an hour. All birds were immatures or sub-adults.

Brown Booby

All 5 birds were seen within sight of Oahu. Four were taking part in feeding flocks.

Red-footed Booby

All 114 birds were within 50 miles of Oahu. Most were in feeding flocks.

Great Frigatebird

A new high of 48 birds was recorded in May, all within 400 miles

of Oahu. Only 11 were seen in May 1968.

Wandering Tattler

One bird circled the ship several times on 29 May. It did not appear to be in breeding plumage. This is the first record of this species at sea in the area.

Pomarine Jaeger

Four birds were seen in May, probably stragglers moving north.

None was within 50 miles of land.

Long-tailed Jaeger

At least two and possibly 3 or 4 birds were seen. Two had central rectrices in excess of three inches. All were intermediate phase.

All were over 100 miles from land.

Skua

One bird was seen on 22 May just after sunrise. Two were seen in May 1964.

Sooty Tern

Almost all of the 5020 Sooty Terns seen in May were within 250 miles of Oahu. Very large flocks were encountered within 50 miles of Oahu on 31 May (up to 1000+ birds per flock). No immature birds were seen. Because of the large flocks in the Oahu area the total for May was considerably higher than the previous high month which was May 1964 (3117). The fact that a record Skipjack Tuna catch is being made this year around Oahu may help to explain these unprecedented numbers.

Noddy Tern

A record 1516 Noddies were recorded in May. All but three were within 50 miles of Oahu. These three were seen on 19 May (1) and 30 May (2), all about 200 miles north of Oahu.

Fairy Tern

All but one of 13 Fairy Terns was within 300 miles of the high Hawaiian Islands. The exception was at the southern end of the area.

Arctic Tern (?)

Six individuals were seen on five different days, all heading north. Last year this species' migration was apparently completed by the end of April in this area.

Table 1

Date	Minutes of Observation	Total Miles
May 12 13 14 15 16 17 18 19 20 21 22 23 24 25 6 27 28 29 30 31	357 779 767 760 761 772 785 793 796 782 772 756 761 775 785 800 820 824 811 589	60 115 130 130 130 134 131 131 131 131 131 131 131 131 131
Total Average	15045 752.3	2431

Table II

Date	Total	Total Sightings	Birds/ Sighting	· ·		Tumbers n Flocks
May 12	859	91	9.44	14.32	13	745
13	387		3.49	3.37	5	220
71:	58	39	1.49	.45	1	6
15	76	63	1.21	.58	0	0
16	73	55	1.33	.56	0	0
17	45	28	1.61	. 31:	2	12
18	699	85	8.20	5.30	15	613
19	584	56	10.43	4.29	9	517
20	46	33	1.39	.36	1	5
21	26	22	1.18	1.23	0	0
22	46	39	1.18	• 35	0	0
23	106	76	1.39	1.12	1	25
24	193	142	1.36	1.64	0	0
25	40	35	1.14	.31	0	0
26	167	53	3.15	1.69	5	112
27	6	6	1.00	.04	0	0
28	11	9	1.22	.08	0 .	0
29	15	15	1.00	.13	0	0
30	987	65	15.18	6.41	12	920
. 31	4761	152	31.32	45.78	23	4486
Total	9185	1175	97.71	87.35	87	7661
Average	459.3	58.8	4.89	4.37	1 . 1	38.3

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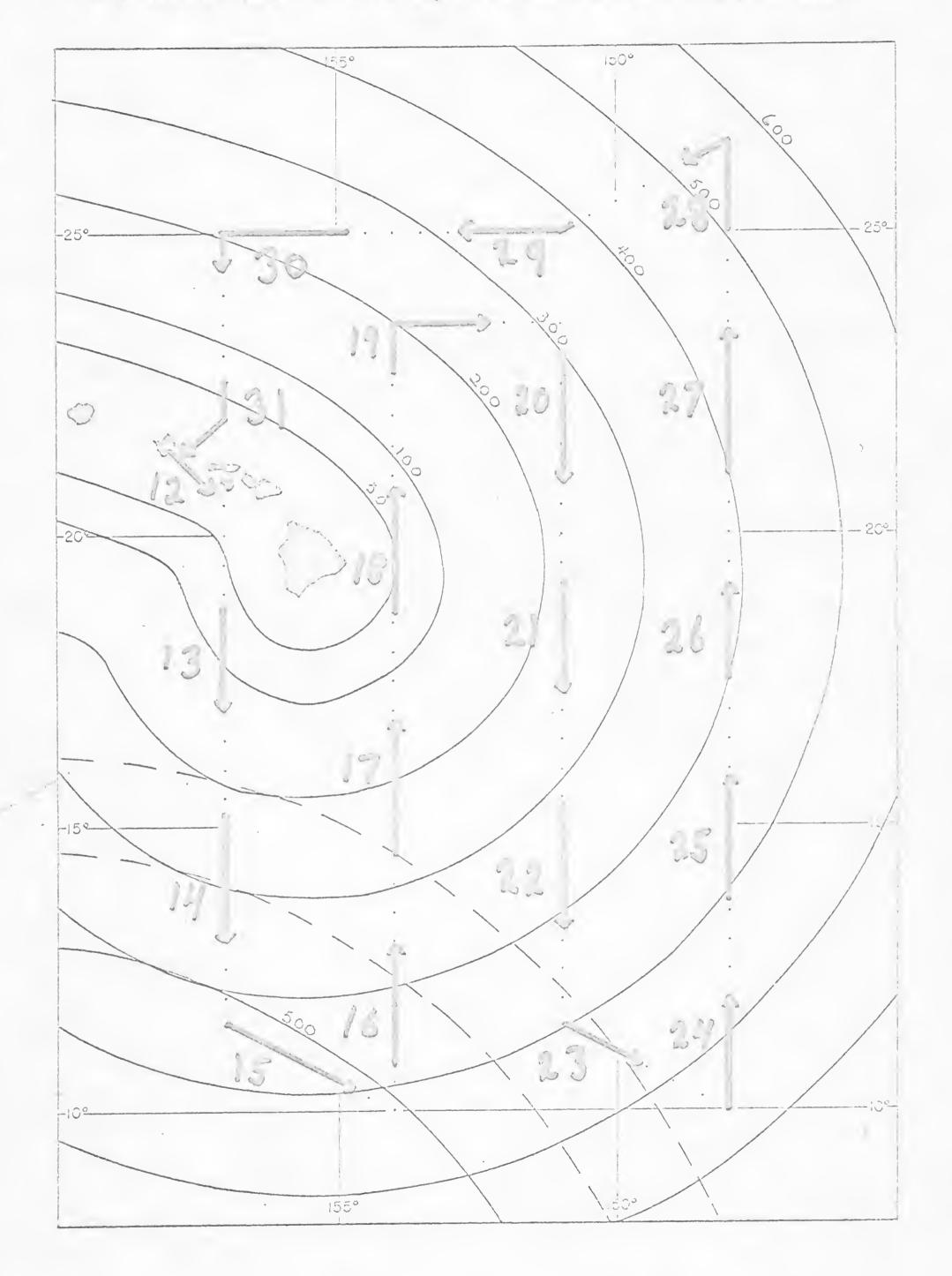
Table III

Date	Procellari- iformes	Tropicbirds	Terns	Boobies	Frigatebirds
May 12	133	0	663	61	
13	141	1	231	0	10
14	37	<u>) </u>	14	0	1
15	73	0		0	0
16	64	1	6	1	0
17	42	2	0	0	1
18	110	5	579	0	<u>) </u>
19	93	2	482	0	5
20	34	0	9	0	3
21	22	1	0	0	0
22	36	3	1	0	0
23	93	1	9	1	0
	185	5	0	3	0
25	1:0	0	0	0	0
26	160	2	5	0	0
27	5	1	0	0	0
28	11	0	0	0	0
29	9	2	1	0	2
30	192	1	788	0	3
31	600	1	4083	58	18
Total	2080	32	687.5	124	48
Average	104	1.6	243.8	6.2	2.4

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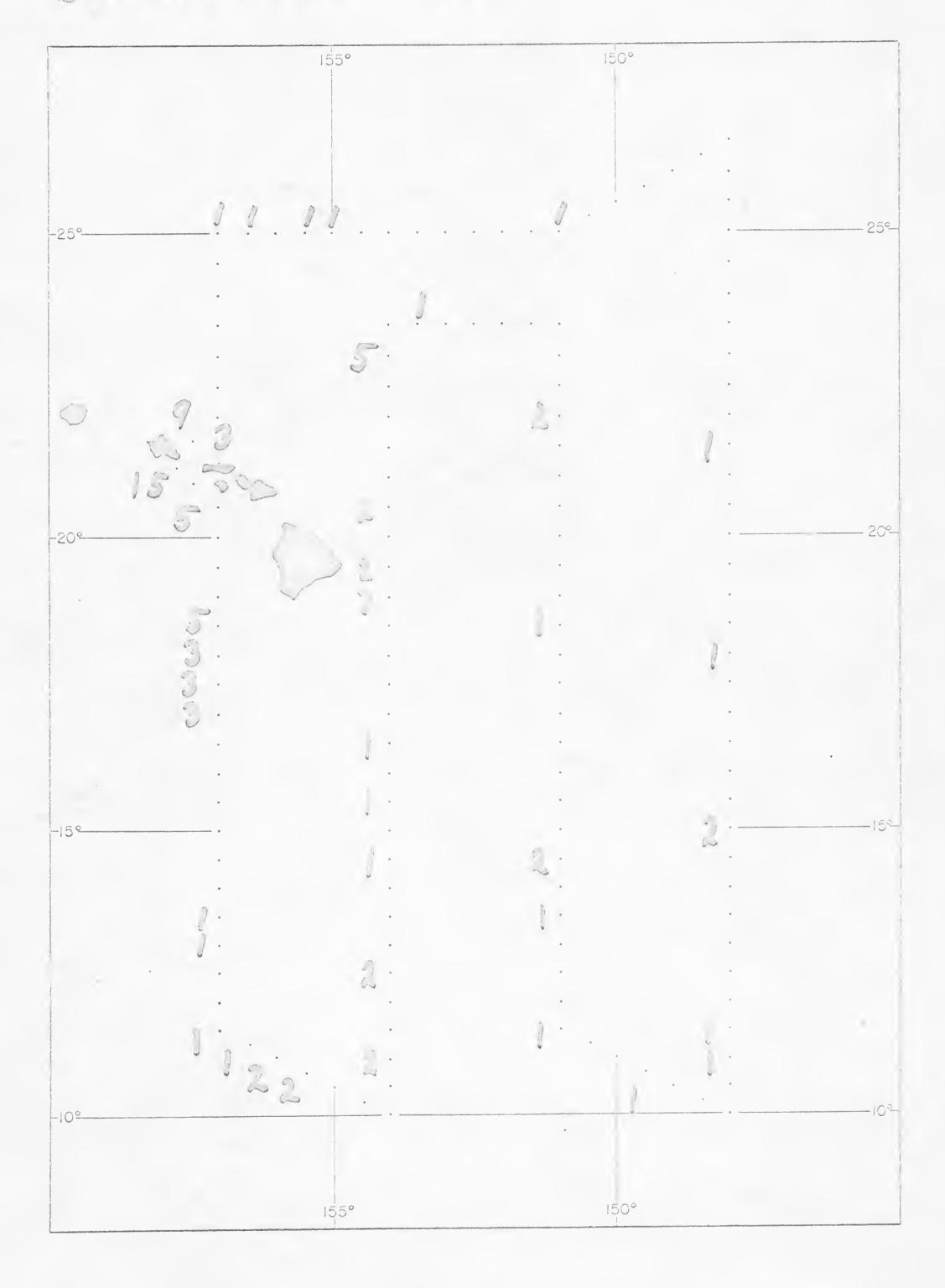
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No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
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V. Abundance	of Shorebirds:			
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VI. Abundance	of Boobys:			
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V. Abundance	of Shorebirds:			
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VI. Abundance	e of Boobys:			
No. Sightings	No. Birds	Birds/Sightin	g Birds/Mile	
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VII. Abundan	ce of Frigatebi	rds:		
No. Sightings	No. Birds	Birds/Sightin	g Birds/Mile	
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DATE: 16	May 6	Total	l Minutes:	76	1	To	otal Miles_	130
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V. Abundanc	ee of Shore	ebirds:						
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Abundance of Shorebirds:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
o. Digitorings No. Dirus	DIT (18) DIGITOTING	DITUS/MILE	
0			
T. Abundance of Boobys:			
lo. Sightings No. Birds	Birds/Sighting	Birds/Mile	
BF RF B T BF RF B	T BF RF B	T BF RF	B
	1.5		
II. Abundance of Frigatebird	S:		
lo. Sightings No. Birds	Birds/Sighting	Birds/Mile	
3 4	1.33	- · · · · ·	
VIII. Abundance of Flocks:			
Total No. Total No. Total	No. No. Feeding	No. Feeding	No. Feeding
Flocks Birds F/Mi.		Birds	F/MI.
15 6/3 .11	12	555	.09

DATE: / /	To-	tal Minutes: // /	5	Total Miles / 3
l. Total Ab	undance of birds:			
No. Sighting	s No. Birds B	irds/Sighting Bird	ds/Mile	
56	584	0.43	1,29	
I. Abundan	ce of the Shearwat	ter-Petrel-Albatross	Group:	
o. Sighting	s No. Birds	Birds/Sighting	Birds/Mile	
T WI P	B T WT P B	T WT P B	T WT P	В
7 7 0 1	932306	2.45 3.27) 15	168	C 4
II. Abunda	nce of Tropicbird	š:		
Sighting		Birds/Sighting	Birds/Mile	
RT WT	T RT WT	T RT WT	T RT W	Γ
n /	201	1,0 0 1,10	$C \mid C$,)
. Abundan	ce of Terns:			
. Sightings	s No. Birds	Birds/Sighting	Birds/Mile	
18	482	26.78		
Abundance	e of Shorebirds:			
	Mo. Birds	Birds/Sighting	Birds/Mile	
	DITUS	DII (19) DI SII OI IIS	DITUS/MILE	
. Abundand	ce of Boobys:			
. Sightings	The state of the s	Birds/Sighting	Birds/Mile	
Dr Ar	B T BF RF B	T BF RF B	T BF RF	В
)			0	
I. Abundar	nce of Frigatebird	S:		
. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
5	5	1,67	54	
II. Abunda	nce of Flocks:			
tal No.	Total No. Total Birds F/Mi.		No. Feeding Birds	No. Feeding F/MI.
9	517 0	1 6	5102	04

DATE:	Total Minutes: / / /	To	otal Miles /
l. Total Abundance of bird	S:		
lo. Sightings No. Birds	Birds/Sighting Bird	s/Mile	
33 46	1.39	6	
I. Abundance of the Shear	water-Petrel-Albatross	Group:	
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
T WT P B T WT P B		T WT P	В
710234102	1.26 1.0 01,0	126,0	,02
II. Abundance of Tropicbi	rds:		
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
RT WT T RT	WT T RT WT	T RT WT	
0			
V. Abundance of Terns:			
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
9	2.25	07	
. Abundance of Shorebirds			
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
		[3	
I. Abundance of Boobys:			
o. Sightings No. Birds BF RF B T BF RF	Birds/Sighting	Birds/Mile	
BF RF B T BF RF	B T BF RF B	T BF RF	В
(_			
II. Abundance of Frigateb	irds:		
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
7	1.5	02	
III. Abundance of Flocks:			
otal No. Total N	9	No. Feeding Birds	No. Feeding F/MI.
	0 /	5	,01

DATE: 4//		Tota	l Minutes:	_/6	<u></u>	Tota	al Miles_	/ /
1. Total Ab	undance (of birds:						
No. Sightings	s No.	Birds Bir	ds/Sightin	ıg Bird	s/Mile			
22		26	1.18		13			
I. Abundan	ce of the	e Shearwate	r-Petrel-A	lbatross	Group:	•		
lo. Sightings				Sighting	_	ile		
	B T W		T WT	P B	T WT	P E	3	
	1 22 1	5/1	122.1.1	1,0	119 .05	101 1	1	
II. Abunda:	nce of T	ropicbirds:						
o. Sightings	No.	Birds	Birds/S	Sighting	Birds/M	ile		
RT WT	T	RT WT	T RT	WT	T RT	TW		
0 1		0 1	, ,	,)	, 5/	,0/		
IV. Abundand	ce of Ter	ens:						
o. Sightings	No. I	Birds	Birds/Si	ghting	Birds/M	ile		
		0		0		0		
. Abundance	e of Shor	ebirds:						
o. Sightings	No. I	Birds	Birds/Si	ghting	Birds/M	ile		
		0			0			
T. Abundano	ee of Boo	bys:						
lo. Sightings	No. I	Birds	Birds/Si	ghting	Birds/M	ile		
BF RF	BTI	BF RF B	T BF	RF B	T BF	RF B		
			6P		Ċ			
II. Abund a r	nce of Fr	rig a tebirds	& &					
o. Sightings	No. I	Birds	Birds/Si	ghting	Birds/Mi	le		
		0						
III. Abunda	ince of F	locks:						
	Total No Birds	. Total I	No. No. Floc	Feeding ks	No. Feed Birds		No. Feed: F/MI.	ing
0		70	7	2	0			

ATE: 22 Man 65 TO-	tal Minutes: 77	2 1	btal Miles_
. Total Abundance of birds:			
o. Sightings No. Birds B	irds/Sighting Bird	s/Mile	
39 4;	1.18	35	
I. Abundance of the Shearwat	ter-Petrel-Albatross	Group:	
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
T WT P B T WT P B	T WT P B	T WT P	В
2 3 - 363173	1.06	17,02,13	, 44
II. Abundance of Tropicbirds	3:		
o. Sightings No. Birds	Birds/Sighting	Birds/Mile	
RT WT T RT WT	T RT WT	T RT WT	
1 / 3 / /	10 10 10		1
Abundance of Terns:			
. Sightings No. Birds	Birds/Sighting	Birds/Mile	
2		03	
Abundance of Shorebirds:			
. Sightings No. Birds	Birds/Sighting	Birds/Mile	
0 0		0	
Abundance of Boobys:			
. Sightings No. Birds	Birds/Sighting	Birds/Mile	
BF RF B T BF RF B			В
I. Abundance of Frigatebird	S:		
. Sightings No. Birds	Birds/Sighting	Birds/Mile	
		6	
II. Abundance of Flocks: tal No. Total No. Total	No No TI	No. The same	
tal No. Total No. Total ocks Birds F/Mi.	O	No. Feeding Birds	No. Feeding F/MI.

DATE: 2 ? /	la.	_ Total Mi	inutes:	156	To	tal Miles 93
1. Total At	oundance of b	irds:				
No. Sighting	gs No. Bird	s Birds/S	Sighting	Birds/Mile		
76	106	1.5	9	1.12	-	
II. Abundar	ace of the Sh	earwater-Pe	etrel-Alba	tross Group):	
No. Sighting	The second secon		Birds/Sigh		ds/Mile	
day.	B T WT P 2 93 16 46	$\frac{B}{2}$		B T 24' - 18	WT P	B
4	nce of Tropi					
No. Sighting	gs No. Bir	ds . I	Birds/Sigh		ds/Mile	
T RT WT	T RT	WT		T T	RT WT	
110	//	() /.	21.0	19	,01	
IV. Abundan	ice of Terns:					
No. Sighting	s No. Bird	s Bi	rds/Sight	ing Bir	ds/Mile	
2	9		4.5		. ()	
V. Abundanc	e of Shorebi	rds:				
No. Sighting	s No. Birds	s Bi	rds/Sight	ing Bir	ds/Mile	
0			0		0	
VI. Abundan	ce of Boobys	3 -, ⊕-,				
No. Sighting	s No. Birda	Bi	rds/Sight	ing Bir	ds/Mile	
T BF RF	B T BF	RF B T	BF RF	BT	BF RF	B
1 / 0	() /		100 0		701	
VII. Abunda	nce of Friga	tebirds:				
No. Sighting	s No. Bird	s Bi	rds/Sight	ing Bird	ls/Mile	
5	•		V.	5	C 3	
VIII. Abund	ance of Floc	KS:				
Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Fee Flocks	ding No. Bird	Feeding ls	No. Feeding F/MI.
1	25	·	£ .		2	D

DATE: 24/MV Total	Minutes: 76	To-	tal Miles //8
1. Total Abundance of birds:			
No. Sightings No. Birds Bird	ls/Sighting Birds	/Mile	
II. Abundance of the Shearwater	-Petrel-Albatross	Group:	
No. Sightings No. Birds T WT P B T WT P B	Birds/Sighting T WT P B	T WT P	B
135 27 88 2 183 33 123 2	1.37 /22 1010	1,51 28 1,64	02
III. Abundance of Tropicbirds:			
No. Sightings No. Birds T RT WT T RT WT	Birds/Sighting T RT WT	Birds/Mile T RT WT	
55055	1.0 1.00		
IV. Abundance of Terns:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
V. Abundance of Shorebirds:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
		0	
VI. Abundance of Boobys:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
T BF RF B T BF RF B	T BF RF B	T BF RF	B
	[]		
VII. Abundance of Frigatebirds:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
			-
VIII. Abundance of Flocks: Total No. Total No. Total N Flocks Birds F/Mi.	o. No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.

DATE: 15 /	Total Minutes: 775	To-	tal Miles /2 8
1. Total Abundance of bird	S:		
No. Sightings No. Birds	Birds/Sighting Birds	s/Mile	
<u>-</u>	1.14	31	
II. Abundance of the Shear	water-Petrel-Albatross	Group:	
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
T WT P B T WT P B		T WT P	B
1 1 24 2 1 2 28	2 1.17 10	.31,04,22	.02
III. Abundance of Tropicbi:	rds:		
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
	WT T RT WT	T RT WT	
		1	
IV. Abundance of Terns:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
0 0	0	0	
V. Abundance of Shorebirds:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
			_
VI. Abundance of Boobys:			
No. Sightings No. Birds T BF RF B T BF RF	Birds/Sighting B T BF RF B	Birds/Mile T BF RF	D
		T BF RF	B
UTT Abundance of Englandah			
VII. Abundance of Frigatebi			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	_
VIII. Abundance of Flocks:			
Total No. Total No. Tot Flocks Birds F/M	tal No. No. Feeding	No. Feeding Birds	No. Feeding F/MI.

DATE: 26 Mac 65 Total Minutes: 785	Total Miles 99
1. Total Abundance of birds:	
No. Sightings No. Birds Birds/Sighting Birds/Mile	
53 167 3,15 1.69	
II. Abundance of the Shearwater-Petrel-Albatross Group:	
No. Sightings No. Birds Birds/Sighting Birds/Mi	ile
T WT P B T WT P B T WT	P B
51527116061101 3.14124.071.0162.06	1,11 .01
III. Abundance of Tropicbirds:	
No. Sightings No. Birds Birds/Sighting Birds/Mi T RT WT T RT WT T RT	
	WT
202 20 2 1.00 1.0 ,020	104
IV. Abundance of Terns:	
No. Sightings No. Birds Birds/Sighting Birds/Mi	ile
5 5,0 ,0	5
V. Abundance of Shorebirds:	
No. Sightings No. Birds Birds/Sighting Birds/Mi	ile
VI. Abundance of Boobys:	
No. Sightings No. Birds Birds/Sighting Birds/Mi	ile
T BF RF B T BF RF B T BF	RF B
0 0 0	
VII. Abundance of Frigatebirds:	
No. Sightings No. Birds Birds/Sighting Birds/Mil	_e
VIII. Abundance of Flocks:	
Total No. Total No. Total No. Feeding No. Feedi	ng No. Feeding F/MI.
Flocks Birds F/Mi. Flocks Birds	17: 7 10:22

DAT	E: 27 M	ay 65	_ Total	l Minutes:	800		Tota	al Miles 144
1.	Total Abund	lance of b	irds:					
No.	Sightings	No. Bird	s Bird	ds/Sightir	ng Birds	Mile		
	6	6		1,0	. 0	4		
II.	Abundance	of the Sh	earwate	r-Petrel-A	lbatross	Group:		
No.	Sightings	No. Bird	S	Birds/S	Sighting	Birds/M	ile	
T	WT P B	T WT P		T WT	P B	T WT		B
5	001	500	1	1,00	01.0	,030	0,0	
III	. Abundance	e of Tropi	cbirds:					
No. T	Sightings RT WT	No. Bir	ds WT	Birds/S	Sighting WT	Birds/M	ile WT	_
/	1 0	/ /	(**)	1010		0/0	/ -	
		1		113 133			/	-
IV.	Abundance	of Terns:						
No.	Sightings	No. Bird	S	Birds/Si	ghting	Birds/M	ile	_
)	C		0		
V.	Abundance c	of Shorebi	rds:					
No.	Sightings	No. Bird	S	Birds/Si	ghting	Birds/M:	ile	
	0	open.			0	1	0	
VI.	Abundance	of Boobys	b.					
T. T.	G							
I. MO.	Sightings BF RF B	No. Bird T BF	RF B	Birds/Si T BF	ghting RF B	Birds/M: T BF	ile RF I	2
(DI IU D		TU: D	, Dr	IU D	3 J DE	TIT. I	2
								-
VII,	. Abundance	of Friga	tebirds:					
No.	Sightings	No. Bird	S	Birds/Si	ghting	Birds/Mil	le	_
	0	0			<i>(</i>			
VII	I. Abundanc	e of Floc	ks:					
Tota		tal No.	Total N F/Mi.	No. No. Floc	Feeding ks	No. Feedi Birds	ing	No. Feeding F/MI.
					s' —	6-3		

DATE: 28 May 65 Tota	al Minutes: 820	To	tal Miles 13
1. Total Abundance of birds:			
No. Sightings No. Birds Bir	ds/Sighting Bird	s/Mile	
9 11	1.22	08	
II. Abundance of the Shearwate	er-Petrel-Albatross	Group.	
No. Sightings No. Birds	Birds/Sighting	-	
T WT P B T WT P B	T WT P B	T WT P	В
960011000	1,22,000	,08000	5
III. Abundance of Tropicbirds:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
T RT WT T RT WT	T RT WT	T RT WT	
IV. Abundance of Terns:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
		0	
V. Abundance of Shorebirds:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
/I. Abundance of Boobys:			
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
T BF RF B T BF RF B	T BF RF B	T BF RF	B
/II. Abundance of Frigatebirds	6.		_
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
VIII. Abundance of Flocks:			T
Total No. Total No. Total Flocks Birds F/Mi.	No. No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.

DATE: 2 9 1	12455	Total Minutes:	824	Total Miles 117
1. Total At	oundance of bi	rds:		
No. Sighting	gs No. Birds	Birds/Sighting	Birds/Mile	
15	15	1.0	,13	
II. Abundan	ice of the She	arwater-Petrel-All	batross Group:	
No. Sighting	s No. Birds	Birds/Sig	ghting Birds/Mil	_e
T WT P	B T WT P	B T WT	P B T WT	P B
9 13	1913	1 1,0 1.0	1.01.0.08.01.0	03,01
III. Abunda	nce of Tropic	pirds:		
No. Sighting T RT WT	7			
J W - J	T RT	WT T RT		WT
+ + 1	40	2 1.0 0,	1,0 102 0,	02
IV. Abundan	ce of Terns:			
No. Sighting	s No. Birds	Birds/Sigh	nting Birds/Mil	е
		1,0	101	
V. Abundanc	e of Shorebird	ls:		
No. Sighting	s No. Birds	Birds/Sigh	nting Birds/Mil	е
1		1.0	,01	
VI. Abundan	ce of Boobys:			
No. Sighting	s No. Birds	Birds/Sigh	nting Birds/Mile	e
T BF RF	B T BF F	RF B T BF R	EF B T BF 1	RF B
0				
VII. Abunda:	nce of Frigate	birds:		
No. Sighting	s No. Birds	Birds/Sigh	ting Birds/Mile	
2	2	1.0	0 102	
VIII. Abunda	ance of Flocks	•		
Total No. Flocks		otal No. No. Fe /Mi. Flocks		No. Feeding F/MI.
0				5

12 920 .08	12	990	,08
VIII. Abundance of Flocks: Total No. Total No. Flocks Birds F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
3	1.0	. 02	
No. Sightings No. Birds B	irds/Sighting	Birds/Mile	
VII. Abundance of Frigatebirds:			
T BF RF B T BF RF B T	BF RF B	T BF RF	B
	irds/Sighting	Birds/Mile	
VI. Abundance of Boobys:		A. A.	
	0		
No. Sightings No. Birds B	irds/Sighting	Birds/Mile	
V. Abundance of Shorebirds:			
24 788	32.83	5,12	
No. Sightings No. Birds B	irds/Sighting	Birds/Mile	
IV. Abundance of Terns:			
	(a (a ()	,01,01	
T RT WT T RT WT	T RT WT	T RT WT	
No. Sightings No. Birds	Birds/Sighting	Birds/Mile	
III. Abundance of Tropicbirds:			
49 169 4 192 119 104 3.	7.44 1.11.10	1.25 .77.06	.03
T WT P B T WT P B	T WT P B	T WT P	В
	Birds/Sighting		
II. Abundance of the Shearwater-F	etrel-Albatross	Group:	
65 787 1.	5.18 6.	41	·
No. Sightings No. Birds Birds/	Sighting Bird	ls/Mile	
1. Total Abundance of birds:			
DATE: 50 May 65 Total M	IIIIuucb.	<u>1</u>	btal Miles 157

DATE: 31 May	465 Tota	al Minutes: 589	To	tal Miles 104
1. Total Abund	ance of birds:			
No. Sightings	No. Birds Bir	rds/Sighting Bird	s/Mile	
152	4761	31,32 45	78	
II. Abundance	of the Shearwate	er-Petrel-Albatross	Group:	
No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
T WT P B	T WT P B	T WT P B	T WT P	B
18 39 0 8	600,563 0 12	9.09 14.44 0 1.5	5,77 5.41 0	,12
III. Abundance	of Tropicbirds:			
No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
T RT WT	T RT WT	T RT WT	T RT WT	
101	101	1.0 0 /0	1010,0) /
IV. Abundance	of Terns:			
No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
100	4083	40.83	39.26	
V. Abundance o	f Shorebirds:			
No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
			0	
VI. Abundance o	of Boobys:			
No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
T BF RF B	T BF RF B	T BF RF B	T BF RF	В
0 0 19 4	580544	29 0 2.84 1.0	,56 0.52,	04
VII. Abundance	of Frigatebirds	•		
No. Sightings	No. Birds	Birds/Sighting	Birds/Mile	
)4	18	1.29	, 17	
VIII. Abundance	e of Flocks:			
	tal No. Total : rds F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
23 44	26 .22	18 4	1304	17

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 12 May 65

IME	TAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD
100												1			
200								1							
200															
-00 -00 000															
-00															
700															
800															
900															
000															
100															
200															
300	2119	157.58													
400	21 12	15751													
500	2104	157 43													
00ر	20 57	157 35	.												
700	20 48	15727												700	
S00	70 40	157 19													
900	20 25	157 15													
000	3029	157 11													
100		157 08											The state of the s	And the second s	
200	70 03	04													
300	19 59	151 33													
400		156 59													
	REMARKS:					THE PERSON NAMED IN COLUMN 1									

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE

TIME	F.AT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	11934	15639													
0200	1922	, ,	00	5	1016.0	24.5	21	1	7		320-8-5	254	1 -1	320	5-1,
0300	19//	1 2 5													
00	19 00	15100													
0-00	1859	157 00													
೦೨೦೦	18 47	1510				and the second s	Management								
0700	1836	157 01													
0800	1825	15101	02	5	1014.2	23.9	21		7		120-4-3	25,0	15	120	5-1:
0900	1915	15301													
1000	1000	157 00													
1100	1 1 5 18	1500													
1200	13 612	1													
1300	17 32	1 .													
1400	1	1 0 0	0/	10	1013,4	26.0	22		24		W0-6-3	25,5	18	140	2-12
1500	17 39	· F		2.00											
1,00	1721	156 57													
1700	1	-1													
1800	1	1													
1900	10 52	1-15													
2000		7-51	02	10	1013 14	25.7	22		4		140-6-3	25,4	18	1 3	5-12
2100	1 2	-											THE STREET STREET	a desirable sector of	
2200	16 18														
2300	5					,	to the second se								
2400	1 6 1 64	•													

REMARKS:

ALL TIMES LOCAL (WHISKEY); WILD DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MALES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA SURVEY CHART C

DATE 14 1110-55

TIME	FAT		LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD
0100	15	27	157 00													
0200	15	54	157 00	02	10	1014,0	24.9	22		54		160-6-3	25,4	15	160	5-12
0300	15	42	1= 7 00													
-:00	15	5 0	15 30													
00	13	2m 0	13701													
:00	15	09	15702													
700	1 4	59	15702													
800	2 0	4 in	157 02	20	10	1013,9	2510	2 2		5		140.8.2	25.3	10	140	5-12
900		37	157 62				***									
000	14	3 2	157 02													
100	Soly	26	57 02										The state of the s		Control of the Contro	
200	14	14	157 66													
300	1 24	13	157 01													
400	3	5	15101	03	. 2	101219	26,5	23		7		195-8-2	26.1	<i>}</i> -	1 400 600	5-12
500	13	110	1 7 01													
500	. >	79	13) 00													
700.	13	18	157 0												64	and a second
500	13	2 6	157 03													
900	12.	5 7	15 1 0													
000		5	- 3	01	()	1012,7	2-6,1	2-3		2		100-6-3	763	16	40	5-16
100	12	(4)	157												The state of the s	
200	12	ing in	157 - 2												A Secretary Control of the Control o	
300	12	30	15101					the transfer of the transfer								
400	12	19	157 00													
	REI	MARKS:												7		

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 15 1210-65

TIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	1208	15 659													
0200	11 500	15,57	01	10	1012,4	7260	2.3	!	2-		90-6.3	26.0	1	11 17	3-12
0300	11 45	156 35													
. 00	11 33	156 57													
C-00	11 30	13651													
0000	11 29	13656													
0700	11 75	15646													
0800	111 31	136 36	0 7	19	1011.6	26.8	2-11		2		90-6-5	26,4	1		SE-12
0900	1117	126 76													
1000	111/2	156 16													
1100	1108	136 06													
1200	1113	155 56				4-25	20								
1300	12 57	15546													
1400	J 6	13536	16	5	1011.1	26.3	o		8		90-1-8	26,4	7)	58-12
1500	10 47	153 27													
1,00	10 1/2	1 . 2 1 . 3	\												
1700	10 37	155 67							-						- minutes
1809	10 3.6	15458													
1900	10 27	13442													
2000	10 20	15437	02	5	1011,1	26.4	23		7		90-5-8	26.4	7	- 0	25-2
2100	10 18	15 4 -							TWO PER CONTRACTOR OF THE PERSON NAMED IN COLUMN			the second second	The state of the state of	and the second s	
2200	10 11	151174													
2300	10 05	15115					The second secon								
2400	10 00	154 06											- 1 - Kr		
	REMARKS:														

REMARKS:

ALL TIMES LOCAL (WHISKEY); WILLD DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 16 Mar 0 - 65

0100 0	AT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
AND DESCRIPTION OF THE PERSON NAMED IN	9 52	15400		*											
0300	1 55		02	17	1012.2	23,5	23		4		90-6-6	16.2	1	C17	N-12
0300 /	0 7	16 6 0 0													
00	9	3 59													
C-00 /	0. 33	153 59													
0000		15 57													
0700 1	2 5 5			*											
0800	2 8	2000	01	15	1012,4	25.8	71		4		110-6-6	25,9	-d	110	N-12
0900 11	18	152 59													
1000 /	1 28	153 55													
1100 //	1 . 5	153 51													
1200	35	1,0 2 52		, A		194(0) (310,00	, , , , , , , , , , , , , , , , , , ,								
1300	1 47	15359													
1400	57	15400	って	1	1011,4	25.9	22		2		80-L-6	25,9		8 9	N-12
1500 / 1	2 11	151 60		- 194 s											
1,00	7	1													
1700 / 3	, f	1:11 02													
1800 0	7 4 9	1311 61													
1900	3 3	1.5 11 6.3													
2000 1.	1 194	151103	02	Ŷ	1011,5	25,9	L		7		70-6-8	26.4	4	· • ©	1-12-
2100 /	1	15 1 2 3											19 mg 19		
2200 /	210	15103													
2300 1	3 22	15.1 0?													
2400 1	3, 331	15/0.													

REMARKS:

ALL TIMES LOCAL (WHISKEY); WILD DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA SURVEY CHART C

DATE 17 Man 65

DIME	F,AT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
			The state of the s												
0100		15401						-							N-12
0200	1355	15 4 50	03	10	1012.6	24.5	22		7		70-6-8	76.0	9	. 3	
0300		15 100								-					
00	17/8	131/00													
C-00	1-1 39	15400													
0000	20	153 57													
0700	1440	133 37							A. 6.			~ * >	A		11-12
0800	14 5 =	154 61	50	. ^	1	22,8	60		2		40-6-8	26.0	-	-0	
0900	15 01	1 - 17 12 5													
1000	15 1	1. 4 01													
1100	1 Talk	./ 00												of the state of th	
1200	15 37	154 00		The state of the s											
1300	15 11	153 58													/11/
1400	16 00	157 57	02	1.0	101215	25,0	19		.3		60-6-6	7915	/	(5.6)	10 12
1.500	16 00	153 57													
1,00	16 12	15351	X												
1700	1624	15357													
1800	- E	153 57													
1900	16 99	15357													
2000	1721	15357	V ~~	1.5	10/31	24,6	20		6		30-6-6	24.8	/ _		N-12
2100	17 05	152 57													
2200	1.7 17	15357													
2300	1	1 - 4 - 0													
2400	17 -7	1:11 23													

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MALES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 18 May 65

TIME	FAT		LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	117	40	15400					-			1	1				
0200	17	52	15401	5 3	10	1014,8	24.2	7		7		60.6.5	124.2	2	60	11-12
0300	18	04	154 02													
00	18	16	1:4 23													
C-00	118	7 9	154 ==													
0500	19	40	15405													
0700	15	51	15405													
0800	19	00	154 05	62	10	1016,4	2411	2 0				110-6-5	24.7	12	110	N-12
0900	19	6	' = [, -1.		***************************************											
1000	19	15	1-314 -241													
1100	1 1	2-7	154 34													
1200	19	38	15400				3.00					1				
1300	101	50	15403													
1400	20	02	154 03	1 200 E	12	1015,1	23.2	19		7_		1100-6-5	2-1.4	1.	100	N-12
1500	10	14	154 63													
1,00	20	26	/ · · · · · · · ·													The state of the s
1700	,	3/	154 03						1							
1800	20	.1.8	154 54												and the All	
1900	20.	51	1541													
2000	1	~ /	154 0	02	10	1014,9	23,8	19		7		90.1-5	24.8	15	- ,4)	N-12
2100	2/	1	1-10			Control of the Contro				and the second				To Proper Services	Sections of Section of	
2200	21	19	154 01						<i>3</i> ₄						officerate St. Land St. St. St. St.	
2300	21.	37	15359													
2400	2/	45	15 37											2.445		
	REMA	RKS:									3	3				

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 1914cm 65

SIME	FAT		LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HIM %	TI. SKY	OPA SKY	WAVES	SEA TEME	WIND S	WTMD D	SHIP COURSE/SPD.
المالية	7 11 2 1			771111		And the		DEW II	11011 /0	ملد علاما کی کی علم		***************************************		11211	MYTM D	DILL COULDING DID.
0100		5.7	153 55													
0200	21	59	1.5 5	02	10	1015,8	22.7	19	1	7		10-6-5	24,4		100	N-12
0300	٠.	07	153 33													
00		2	136 53													
C-00		4 -	133 51													
0500	1 /	4:	15351													
0700	-6.	57	- 1 51													
0800	23	0.9	1 = /	02	10	1012.1	2115	20		4		110.6.5	23,8	/ -		N-12
0900	22	- 1	150 36													
1000		<i>i</i>	15 5		-											
1100	23	3 0	15 3 5 20													
1200	2 3	. 2	1 - 6/1				3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6									
1300	43	27	153 -17				Life and the Contract of Contr									
1400	7. 0		15 18	16	10	1817,6	73.6	19		47		120-6-5	23.9	1	120	2.12
1500	2 1	2-7														
1,00	27	1 -7	152 56													
1700		2 /	2 44													
1800	123	2 7	157													
1900	1, 10)	1-221												-	
2000	2 1	7	152 09	0/	. A	1018 W	23,2	18		7		120- 5	2 3 0	12	120	9-12
2100	2	.)	152 65			2 1 2 1				7		1000		The same of the sa		
2200			1 - 1 - 2									5.00	· . · · · · · · · · · · · · · · · · · ·			
2300		7)					e de son son se				+					
2/100		h /	, ,													
_ +00	DEN	MARKS.	1 2 / 12 /							1						

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE : 1: 2 65

TIME	TAT		LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D.	SHIP COURSE/SPD.
0100	123	2)	13114												1	
0200	73	? 1	15/01	F	10	014,0	22.0	17		6.		120-6-5	236	1	120	E-12
0300	73	.3 .3	15100													
00	23	17	15102													
C-00	7	06	151													
0000	2 ?	56	1 02													
0700	27	46	13 00				100 96.60.0000									
0800			1059	-, ~3_	10	1018 9	7214	19		¥		120-2.5	23.6	1	120	5-12
0900	22	15	180 59													
1000		15	1 0 0													
1100	£ 3	= 11	151 00										**************************************		an very stopped CSD	
1200	2 2	5/	15. 25				See To	9)								
1300	21	54	131 00													
1400	21	43	13 1 9 9	9 73.	10	1017,6	* 3- 3, G	20		3		90-6.5	7718	/	-ig (5)	1 2.
1.500	-21/	1	13100													
1,00	- 4	21	15101													
1700	P	11	15101													
1800	1-	01	15/01													
1900	2	= 1	15102			•										
2000	11/2	41	1510	0/	10	1017,6	23,8	19		4		100-6-5	3.7	1	20	04 2
2100	7 0	35	15102										AND		Consideration of the contract of	
2200	0	. 0	15/02													
2300	2 0	100	, , , , ,					A second of Section 14, a continu								
2400	20	17	15101													

REMARKS:

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA SURVEY CHART C

TIME	J.A.I	[LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	120	2 5	15100			,									1	
0200	19	53	15 1 5 9	02	10	1015.6	23.2	18		7		100-6-5	23.7		100	5-12
0300	1,7	4/	15000													
00	/ 1		1500													
0-,00	19	17	15056													
0500	19	05	,													
0700		20	15 10 5				A- 14 - 1									
0800	18	3	11255	(3)	10	relbil	23.2	12		-7		90-5-5	24.0		70	5-12
0900		40						COMPANY OF COMPANY OF COMPANY								
1000	1 4	17	11435					55								
1100	1 ,	15	1: 1 = :								1					
1200	15	03	150 6					12.00								
1300	17	7 = 1	, _													
1400	1	1 37	5957	/	10	1015.1	24.8	20		3		70-6= 7	24.7	1	~ 0	5-14
1500	17	3/	120 59													
1 100	15	0	1 10											4		
1700	17	21	750 50													
1800	17	24	15/ 00													
1900		11	151 01								1					
2000	16.	51	151 21	02	10	1015.4	64.5	20		2		70.6-7	244		comp)	5-12
2100	16	53	15101							The second		1 - 5	L- / - /	STATE AND STATE	a charge and a literal month	
2200	1 / €	1/0	5100													
2300	1.	22	15100													
2400	15	1	15 4 5 3			****				-						
	RE	MARKS:	/							-						

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 22 111 am 65

TIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	1602	15051													
0200	1: 53	1:057	02	10	1017,6	24.0	19		3		10-6-7	24.7	1	100	5-12
0300	1 51	1 . 9													
-00	15 29														
-00	15 27	15 1 5													
೨೦೦೦	17	· 8				1 200 0 21 22 23									
700	15 06	5 1 5 8													
0080	1'		07	10	1515.1	24.8	20		3		70-6-7	24,9	121	70	5-12
900	1 00	1150 51													
000	14 30	150 57													
100	1 1 3 "	130 59												purchase.	
200	14 22	150 59													
300	14/ 11	120 53													
400	. 1	13 9 5 9	02	10	1013,-	25.5	21				90-6-7	25.5	10	90	5- 6
500	13 48	151 60	10 Pts												
00ر	3.7	100													
700	1 2 7	159 00													
500_	13 14	15100													
900	1 - 1	13/0/													
000	1 6 0 /	15101	02	10	0100	25 2	7-1				90-67	33.	7	Shaper of the second of the	
100	1301	151 51													
200		1.5 / 0/		1						li di					
300	16 43	151 61													
400	REMARKS.	151 3/													

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 23 May 65

TIME	TAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	1221	15101							1						
0200	71 25	15/01	02	10	10/3.0	25.0	22	'	1		80-6-8	260	19	80	5-12
0300	11 58	151 51													
.,00	47	151 31													
C-00	111 27	15102													
0,00	11 22	1 , 1 0 2													
0700	1(3)	151 61													
0800	0.00 3/2	1 - / 0	03	1 ,	1013,4	145	123		7		70-6-10	26,4	2-	70	5-12
0900	11 3 2	1.5 /					2 2 7 5								
1000	11 28	190 4													
1100	11 22	1 - 14												Section 19	
1200	11 17	150 24													
1300	11 12	150 25													
1400	11 01	150 15	21	5	1012.8	25.3	24		7		110-6-10	26.4	16	110	25-15
1500	11 64	150 06													
1,00	13 59	147 56.													
1700	10	119 47													
1809	10 50	149 37													
1900	10 75	1412												~	
2000	10 41	111918	21	2	1013.5	250	23		17		90-6-10	26.2	2 -	23	SE-12
2100	10	14714												the second second second	
2200	10 10	149 05													
2300	10 29	141 55										***			
2400	DEMARKS.	16 11													

REMARKS:

SMITHSONIAN INSTITUTION DIVISION OF BIRDS AT SEA SURVEY CHART C

DATE 2 4 / 10 4 65

TIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	10 19	111-16							1						
0200	10 14	148 3	0 %	2	101216	25.0	23		7		90-6-10	263	₹-a.	90	58-13
0300	10 09	145 17													
. 00	1004	48 08							-						
C-00	1001	115 21													
೦೨೦೦	15 01	14501													
0700	1002	11.51													
0800	10 20	-1 77 70	01	5	1012.5	25.8	2-1		1 3		70-1-12	26.5	2-	70	N-12
0900	10 32														
1000	10 73	7													
1100	10 55	.0													
1500	11 05	147 58				4	A. 30								
1300	11 7	14759													
1400	11 78	1-115	01	10	1013,4	26.3	70		~3		50-6-12	260	1-	50	N-12
1500	11 29	147 39													
1,00	11 35	117 57	N. Committee of the Com												
1700	11 46	147 59							7.0						
1800		1.1													
1900	17 08	1.17 59													
2000	12 25	141 53	50	10	101510	22.2	22	100	3		90-6-12	16/	- Jan	# b	11- 1
2100	12 25	147 . 7						73.51	****				Company of the London	ENHANCE SEEDING	
2200	12 5	1-1-1		N. Carlotte								7			
2300	17	117 57				The state of the s									
2400	12 58	1.17													
	REMARKS:														

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 25 11 65

TIME	FAT	1	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	12	50	1 1 5 4													
0200	13	0	14-12-9	02	10	1014.8	22. 3	2-1		3		60-6-12	7511	4	60	11-12
0300	13	17	111155													
1.00	3	2	1111 57													
0.00	13	111	14157													
0500	13	53	1117 88													
0700	14	04	1.4													
0800	14	15	11 55	02	10	1016,6	24.2	20		3	i., U,	160-6-12	24,9	24	5 to	Norm
0900	161	26	141757								No. 194					
1000		(2)	11771		-											
1100	14		1117 59													
1200	101	176	147 59				945									
1300	14	57	14750													
1400	15	6.3	147 59	the The	10	1014.6	24,4	20		1		80-6-10	24,6	7	80	11 = 1 E.
1500	15	17	7													
1,00	15	78	14-1-1	A CONTRACTOR OF THE STATE OF TH									The state of the s			
1700	15	39	14335				3 5.01									
1800) d.	50	14758													
1900	15	55	1000													
2000	16	6	147 57	09 7	10	1017.5	24.0	2-1				70-6-10	9 60 000	2		14 0 1 hm
2100	16	06	147 57	6. 66%			P 11 P	in		and the last of th	351 55151675715	7 0 - 6 - 10	The second second	The same of the		
2200	16	1 47	117 58				->				1				- AND	
2300	16	2	147 56													
2400	16	3 9	121-1 = 0													
	ישכו	MARKS.	1									1				

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 26 May 65

CIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16 49	148 00													
0200	1700	14803	02	10	1017.1	23.5	19		3		60-6-10	24.5	7 5	60	N-12
0300	1110	148 00													
. 1-00	1721	148 55													
0.00	1779	148 00													
0500	1737	36 841													
0700	7 4	14800													
0800	1757	14759	03	esto.	1018.1	24,0	18		009		70-6-10	24,2	7:	70	Noise
0900	506	4 5 5 4													
1000	7	14759													
1100	3 % 6 6	1475													
1200	S. S.	149 5 9												-	
1300	181.	14 ; 6 6					No.								All
1400	185:	: 42,00	0 3	10	20174	23.3	19		6		60-6-12	23,5	1 1	60	10-12-
1500	18 00 1	14301													
1 100	13 31	14801													
1700	1902	19/28 0													
1800	1050	145 01													
1900	1915	118 61													
2000	1927	148 02	2 200	10	1017,8	22,1	18		16		60.6-10	23.6	7	(2)	N-12
2100	1422	1965												to the state of the state of	
2200	f of the	1 4 8 6 3													
2300	1756	14803			V-2V-										
2400	20 08	14804													

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 27 May 65

TIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	2020	148 04													
0200	2029	148 04	02	10	1018.3	72.1	182		3		6.0-6-10	23.4	1		N-12
0300	20 31	1418 04													
00	20 43	14806													
C-00	2-7	148 55													
0500		14464													
0700	13118	143 03													
0800	2 30	148 03	03	5	1018,6	21,9	17				50-6-8	23.0	12	50	N-12
0900	1 4 1	144, 65													
1000	7 5 4	10 801													
1100	2200	148 51													
1200		148 01			- Fon-										
1400	2 2 2 3	148 01	0.7	10	101816	72.0	17		7		50-6-6	23, 5		\$ 0	N-12
1500	2240	142 01		7.0	101618	2 6 6 6 7	' /				5.0-6-6	200		3 0	113 1 160
1,00	72 52	14201		out to plant out to be											
1700	2103	14800													manage of the second se
1800	73/5	148 00													
1900	22 27	148 00												The second second	
2000	23 21	14800	02	10	1019,4	22.7	19		7		18 Bohn to	23.7	/	Tony 2	110-12
2100	23	14800	***					37.5	The state of the s	A The Cartain and				A Charles to the second of the	
2200	23 43	147 59													
2300	2356	147 58					12000 10000								
2400	DEMARKS.	fair Es													

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 28.11, 65

TIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	2419	1 4 5 5						T							
0200	24.31	14751	02	10	1018,8	22,00	17		9		80-6	233		8-8	N-17
0300	2443	167 0													
1.00	24 .5														
C-00	2502	1.07 35													
0000	73 06	143 33													
0700	3518	14757													
0800	25 30	147 58	01	10	1022.1	220	12		4		70-5-6	62.7	15	-30	N-15
0900	7 - 1.2	147 58													
1000	25 35	1110 550													
1100	16 06	147 54												or conservation	
1200	26 18	148 00													
1300	3	148 0												.~	11-12
1400	- G	14	02	10	1022.6	2017	17		book		2016-6	-25 8			112-16-
1500	4- (-)	148 05		55.01° 2 550					/				87434		
1,00	28 22	148.16	·												
T.(00)	26 /6	148 77			10										
1809		143 38													
1900	45 08	148 49		7-11-	7.27						500			P	Classia
2000	7 5 15	1300	03	(0)	1067.6	27.2			5		70-6-6	227	6		SUI 160
2100		149 10												· A	
2200		19921			75		C. W. L. C.								
2300	5 3 H 5	7 3 2													
2400	DEMADEC	6 9 3													
	REMARKS:														

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 29 May 65

TIME	FAT	V	LONG	· · · · ·	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	2.5	28	149	64													
0200	7-3	21	150	わず.	62	10	1022,1	217	19		9		9 19 - 6-6	22.6	14	90	SW-12
0300	7	1 4)	76				17.3									
7.00	75	0 7	150	3 27													
C-00	25	901:	150	39													
0000	14	, · · · · · · · · · · · · · · · · · · ·	150	50													
0700	- FA R	Com	150	59													
0800	1211	56	150	59	07	10	1022.6	2.5	18		3		80-8.5	13.0	1.0	20	561-12
0900	-£ 1 {	5 6	160	59													
1000	7 1	-0 PD	15	5 7													
1100	Par 4	5 6	151	08													
1200	24	5 7	151	18													
1300	3 4	3 6	151	31													
1400	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00	151	6/6/	02	10	10:3 4	-10 p = 10 m	18		3		90-6-5	71	100	-7.5	61219
1500	2 5	0 7	151	57													
1,00	75	02	15 6	10	·												
1700		07.	157	73													
1800	1 8	5 °E~	152	36													
1900	25	0 7	152														
2000	250	3	153	01	07	10	102216	23.4	18		2		60-65	6-3, 6a	1	/ pm	in 1 = 1 =
2100	2 4 6	73	153	1 4							- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			_			
2200	2 , "	4	15 3	50													
2300		3 3	153	35	•				harm taken at a see								
2400	25	01	Ser end	4 8													
	DEMAI	DIZC .				7			* * * * * * * * * * * * * * * * * * * *								

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 30 Mars 65

		V													
TIME	FAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	2500	15401						T							
0200	if oc	15401	0 2	13	1023.4	21.7	19		3		80-45	232	12	80	60.12
0300	75 00	15/13							-						
14.00	24 53	15126													
C 500	24 58	15438													
0000	2 1 3 4	15451													
0700	. / 5%	153 04													
0800	1 1 2 8	157 18	0/	1 🖔	1023 8	23.7	18		2		72.6	23.9	1	25	11-12
0900	2458	155 32													
1000	9451	125 46													
1100	2 1 3 7	156 00													
1200		156 15													
1300	25 00														
1400	14 '	16	01	10	1022.5	2517	70		2-		100-5-5	245	1	140	W-13
1500	24	111 1 3													
1,00	2 = ;	156 56	N. Committee of the com												
1700	24 43	156 36													
1800	24 3.6	156 28													
1900	f	1156 = 7													
2000	74 14	115 (25 5)	02	12	10226	2.3.9	18		2		100-505	24.0	12	115	5-12
2100	37	5 - 5 1													
2200	7.3 54	156 5 7													
2300	77 42	15659													
2400	11 30	15658													
	REMARKS.														

REMARKS:

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA SURVEY CHART C

DATE 31 May 65

SIME	TAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/
0100		156 55													
0200	2010	1-668	à 7	, 5	12.0	4 /	19	'	2		9-0-4-5	7 - 2		10	51.14
0300	23 55	156.										4			
00		1= = 5													
C-00	/ /														
೦೨೦೦	2.7	1-1-													
0700	9	0 -													
0800	22 76	12/2 0	1 02	15	2016	7 1	2 5		7		90061	24,0		(2)	5.12
0900	- 1	15706													
1000	1 55														
1100	21 46	. 157 12													
1200	21 37	157 20													
1300	21 28	151 28													
1400	2119	157 36													
1500	2114	15745		MACON THE PROPERTY OF THE PROP											
1500	2115	157 49													
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															